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*Lexington Market*  
*Most Famous Market in the United States.*  
*Baltimore, Md.*

1915



**THE MEYER-STISSER CO**

Seeds for the Market and Garden. BALTIMORE, MD.



## What Some of Our Customers Say About Us

It affords us great pleasure to reproduce a number of testimonials herewith. Want of space does not permit us to give you all on file.

We count among our Customers some of the leading Clubs, State, Catholic and Hebrew Institutions, Schools, Hospitals, Sanitoriums, German Institutions, Florists, Farmers and Private Gardeners.

### **The Maryland School for the Blind, Overlea, Md.**

We are pleased to report that the seed we bought from you the past season turned out well.

We had no trouble whatever with them not coming up and the yield was fine and the vegetables clean and well developed.

(Signed) JOHN F. BLEDSOE, Supt.

### **Crownsville State Hospital, Crownsville, Md.**

We can only say that all articles coming from your firm have proven to be very satisfactory. All our seeds for last year's planting germinated quickly and yielded large crops. Further you have supplied us with goods of high standard and lowest prices.

(Signed) DR. ROBERT P. WINTERODE, Supt.

### **Maryland Normal and Industrial School, Bowie, Md.**

We have purchased practically all of our seeds, fertilizers and farm necessities generally, for the last four years from Meyer & Stisser, of 32 Light street, Baltimore. It is not only a pleasure but it is just to say that we have received prompt shipment, excellent materials, good prices, and that our relations have been in every way satisfactory.

(Signed) D. S. S. GOODLOE, A. B., Principal.

### **General German Aged People's Home, Baltimore, Md.**

We beg to state that we have bought goods from you for several years and they have turned out very satisfactory.

(Signed) C. H. BLANCK, Chairman.

### **Doughoregan Manor Farm, Ellicott City, Md. Chas. Carroll of Carrollton, Owner.**

In the past two years we have purchased from you a considerable quantity of supplies for our large poultry plant; also garden seeds, bulbs, etc., for our gardens and green houses, and have always found them to be first-class goods.

We take pleasure in recommending the Meyer-Stisser Company to those who want first-class goods, and courteous treatment.

(Signed) CHAS. F. HAIGHT, Mgr.

### **Hon. C. J. Bonaparte, Glenarm, Md.**

It affords me much pleasure to write you that I have just finished digging my potatoes and although this has been the year of the greatest drought ever known in Maryland, my potato yield has been abnormal. The potatoes are also unusually large. The Timothy seed I purchased is especially clean and I have always found your firm courteous and prompt.

(Signed) JAS. L. GOODWIN, Mgr.

### **The Sykesville Lumber, Coal and Grain Co., Sykesville, Md.**

It gives us pleasure to add our testimonial not only as to the reliability of your seed, but also to the business end of handling orders. Your seeds have given entire satisfaction in every instance and orders have been shipped promptly and accurately on all occasions.

(Signed) WADE H. D. WARFIELD, Pres.

### **Urchlyn Farm, Revell, Md. Edwin P. Baugh, Jr., Owner.**

It gives me real pleasure to state that we have found the goods purchased from you almost invariably satisfactory and in the few cases where there was a chance for dispute I have always found you people one of the rarest of all things in the business world, a firm always willing to back up any guarantee given, and do it both quickly and cheerfully.

(Signed) CLAYTON S. DOTY, Mgr.

### **Filston Manor, Glencoe, Md. Wm. H. Grafflin, Owner.**

I have had dealings with you for more than three years purchasing various implements, etc.

The seed obtained from your firm produced magnificent plants and were admired by those who saw them. I consider your store one of the most reliable in existence. You are always obliging and prompt in every possible way and endeavor to give satisfaction to every one.

(Signed) CHAS. UFFLER, Mgr.

### **A. Spath, Jr., & Son, Florists, Roland Park, Md.**

We are glad of the opportunity to tell you that we are much pleased with your seeds, especially Lawn Grass Seed with which we have had most experience. We have used grass seed from other sources but have had many complaints; but after using your Roland Park mixture for two years we have not had one single complaint, not even this summer, which was unusually dry. Wishing you much success in the future, we remain,

(Signed) A. SPATH & SON.

### **Johns Hopkins University, Baltimore, Md.**

It affords me great pleasure to inform you that the grass seeds purchased from your house for the athletic field in Homewood and also for the new grounds which were laid off recently. I can recommend your house for the quality of seeds you sell and also for your courtesy.

(Signed) A. T. CHALK, Supt.

### **Baltimore Manual Labor School, Arbutus, Baltimore County, Md.**

Your seed purchased by the Baltimore Manual Labor School for the last four years have given great satisfaction. I want to thank you for the interest and promptness you have shown in filling our orders.

(Signed) MISS M. E. WEAVER, Supt.

### **Eudowood Sanatorium, Towson, Md.**

It is a pleasure to recommend your firm for its promptness and the quality of goods turned out.

(Signed) EUDOWOOD SANATORIUM.

### **Women's Civic League, Fidelity Building, Baltimore, Md.**

Your prompt attention to the Home Garden Committee's order for seed was most satisfactory. All of the seeds received from you, both vegetable and flower, have proven entirely reliable.

(Signed) MARTHA O'NEILL.



# Fifth Annual Edition The Meyer-Stisser Co.'s Garden Book for 1915

## We Take This Opportunity

of thanking our many customers for their generous patronage in the past, and to assure them that we will continue to do all in our power to merit a continuance of their confidence. Our organization and equipment are such that orders can be executed rapidly, and we aim to give every order, no matter **how small or how large**, prompt and careful attention. Our whole efforts and time are unfailingly devoted to uphold the reputation which we have established, and we shall ever be on the alert to support our motto, "Punctuality, Sterling Quality, Courteous Treatment."

**PLEASE READ!** We aim to give our customers the best service possible. If we make an error, tell us about it, and we'll make it right to your satisfaction. If there is any information you want in our line of business, write us, (if you can't call), and we shall be glad to give it careful attention. Our various departments are in charge of experts, who are able to answer intelligently almost all inquiries pertaining to horticulture or agriculture. Always write inquiries on a sheet separate from your order; it means quicker reply.

**THE ATTENTION OF OUR CUSTOMERS IS RESPECTFULLY CALLED TO THE FOLLOWING DIRECTIONS, WHICH WILL, IF FOLLOWED, BE AN AID TO PURCHASERS AS WELL AS OURSELVES:**

### Business Rules

**Ordering, Remitting, Accounts, Forwarding, Etc.**

**PLEASE ORDER EARLY**, thus enabling us to forward promptly—as a rule the day after the order is received. During the March and April rush we may fall a day or two behind, if any greater delay is likely, we will advise.

**THE ORDER BLANKS** accompanying this catalogue will be convenient for customers and facilitate our filling orders (extra ones mailed on request).

**REMITTANCES** should be made by Express Money Order, P. O. Money Order, Bank Draft or Registered Letter.

**ACCOUNTS**—Parties having no account with us—who order goods without remittance—must furnish satisfactory reference. Baltimore reference preferred on account of the shorter delay pending investigation.

**WE FORWARD AS CUSTOMERS DIRECTS** by mail, express, freight or steamer. When no shipping instructions are given we send according to our judgment.

**WE MAKE NO CHARGE FOR SHIPPING AND CARTING** of goods to any railroad station, steamship line or express office in Baltimore.

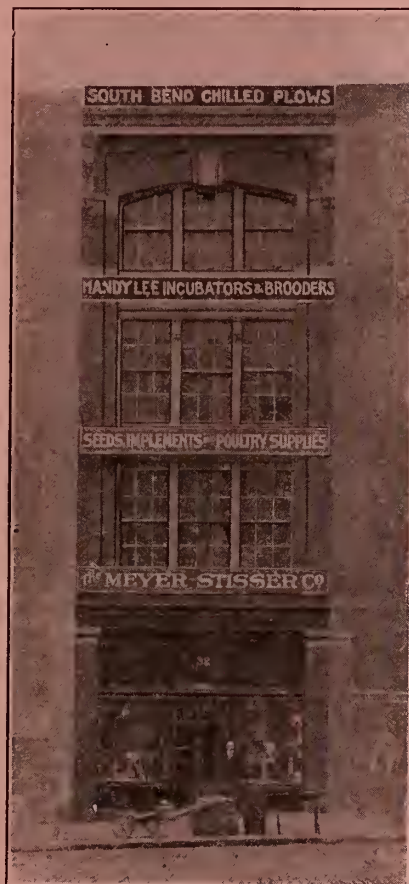
**CORRESPONDENCE IN THE GERMAN LANGUAGE**—For the convenience of our customers who would prefer their native language, we are pleased to announce that we are prepared to correspond in German.

(Hier wird deutsch gesprochen.)



C. & P. Phone, St. Paul 6916.

**ORDER BY TELEPHONE**—We have installed a most modern system, enabling our customers to receive instant attention. A special staff of experienced salespeople are reserved exclusively for the telephone service, so that our patrons may enjoy intelligent shopping from their homes.



OUR OFFICE AND SEED STORE  
32 LIGHT STREET, BALTIMORE, MD.

**WE CANNOT GUARANTEE THE WELL-DOING** of any seeds, plants or bulbs we send out. We use every effort possible in the selection of our seeds, and feel justified in saying that all our seeds are the purest and best to be found; but at the same time, there being so many things beyond the control of man that spoil the best seeds and cause poor crops that it is impossible to guarantee seeds. Therefore, The Meyer-Stisser Company give no warranty, expressed or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs or plants they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they must be returned at once.

When seeds are ordered by mail postage must be added to catalogue prices at the regular parcel post rate, according to the zone the purchaser is in. One quart of Peas and Beans, weighing about 2 lbs. each, and Corn, about 1½ lbs. Packages and ounces are mailed postpaid.

**Remedies and Insecticides in Liquid Form and Poisons cannot be sent by Parcel Post.**

Prices of seeds vary. We quote Market Values upon request and always give our customers the benefit of the lowest price that the market condition will warrant. Special prices on a general list will be given upon application.

### Invitation

All customers and others interested in horticulture or agriculture are cordially invited to visit our establishment, 32 Light Street. Whenever in Baltimore make this store your headquarters and have all letters and telegrams addressed here.

**SPECIAL NOTICE—Positions For Gardeners, Etc.** Our house makes it their business to procure positions for Gardeners, Superintendents, Poultrymen, Farmers and Florists on private or commercial places. Gentlemen wishing to engage the services of men in the above capacity are invited to communicate with us, as we generally have applications on file from desirable parties. Absolutely no obligation is connected with this service.



# Planting Calendar

## FLOWERS

### MARCH

PLANT INDOORS	SET OUT
Ageratum .....	May 1
Antirrhinum (Snap-dragon) .....	May 15
Asters .....	May 10
Carnation, Marguerite.....	May 1
Celosia, Cockscorn.....	May 1
Cobaea scandens.....	May 1
Heliotrope .....	May 10
Hollyhock, Annual.....	May 10
Lobelia .....	May 1
Pansy .....	May 1
Petunia .....	May 1
Salvia .....	May 1
Stocks (Gilliflower).....	May 15
Verbena .....	May 1
Wallflower .....	May 1

### APRIL

All those listed for March may also be planted in April, and, in addition, the following:

SOW INDOORS	SET OUT
Alyssum .....	May 1
Calendula .....	May 1
Coleus .....	May 15
Cosmos, Late.....	May 1
Dahlias .....	May 1
Delphinium Chinese.....	May 15
Gourds, Ornamental.....	May 1
Helianthus Sunflower.....	May 1
Marigold .....	May 1
Mignonette .....	May 1
Nicotiana .....	May 1
Phlox Drummondii.....	May 1
Poppy, Iceland.....	May 15
Ricinus (Caster-Oil Plant).....	May 10
Salpiglossis .....	May 10
Scabiosa .....	May 1
Vinca rosea.....	May 10
Zinnia .....	May 1
SOW OUTDOORS	
Sweet Peas	
Nasturtium	

### MAY

This is the month of outdoor sowing and planting. The following list of flowers comprises those which may be sown in the open, and which will mature into perfection before frosty weather sets in.

#### SOW OUTDOORS

(Do not require transplanting)
Sweet Alyssum
Calendula
Calliopsis
Candytuft
Centaurea (Bachelor's Button)
Chrysanthemum, Annual
Clarkia elegans
Cosmos, Early
Delphinium Chinese
Dianthus (Chinese Pinks)
Eschscholtzia (California Poppy)
Gaillardia (Blanket Flower)
Godetia
Ornamental Gourds
Helianthus cucumerifolius
(Miniature Sunflower)
Hunnemannia fumariaefolia
Larkspur, Annual
Lupins, Annual
Marigold
Mignonette
Morning Glory
Nasturtiums
Petunia
Phlox Drummondii
Poppy
Portulaca
Salpiglossis
Scabiosa
Verbena
Zinnia
(Should be transplanted)
Asters
Balsam
Celosia (Cockscorn)
Cosmos, Late
Dahlias
Marigold
Mignonette
Nicotiana
Ricinus

## BULBS AND TUBEROUS ROOTS

### MAY

#### PLANT OUTDOORS

Begonias	Montbratias	Cannas	Gladjoli
Caladiums	Paenies	Dahlias	Tuberoses

## FLOWERS---Continued

### JUNE

This is the month to sow perennials. The varieties listed below can easily be grown from seed. All of them may be sown from June till September.

#### TO REMAIN WHERE SOWN

Alyssum saxatile compactum
Anthemis Kelwayi
Aquilegia (Columbine)
Asters, New England
Coreopsis
Campanula (Bluebells)
Candytuft, Sempervirens
Hibiscus
Lupins
Poppies, Iceland
Poppies, Oriental

### JUNE, Continued.

TO REMAIN WHERE SOWN, Continued  
Sweet William  
Valerian (Garden Heliotrope)

#### TO BE TRANSPLANTED

Canterbury Bells
Delphinium (Larkspur)
Digitalis (Foxglove)
Gaillardia grandiflora
Hollyhocks
Pyrethrum

### JULY

This is the most important month for sowing some flower seeds. The following biennials, if sown in July and transplanted in August or September, will flower the following spring.

#### VARIETY

Bellis (English Daisies)
Pansies
Myosotis (Forget-me-not)

## VEGETABLES

### MARCH

The only vegetable to be planted out-of-doors in March is early peas. There are a number of vegetables, however, which may be started indoors or in hotbeds.

PLANT INDOORS	SET OUT
Artichoke, Globe.....	June 1
Cabbage, Early.....	May 1
Cauliflower, Early.....	May 15
Celery .....	June 1
Eggplant .....	May 15
Kohlrabi .....	May 1
Lettuce .....	April 15
Parsley .....	May 1
Pepper .....	May 15
Tomato .....	May 1

#### OUTDOORS

Peas, Early Smooth
Onion Sets

### APRIL

All the seeds mentioned in the March table can be started in April, and also the following:

PLANT INDOORS	SET OUT
Asparagus, Seeds.....	June
Beets .....	May
Brussels Sprouts.....	June
Cabbage, Late.....	June
Cauliflower, Late.....	June

#### PLANT OUTDOORS

Asparagus, Roots
Beets
Carrots
Cress
Kohlrabi
Lettuce
Mustard
Onion Seed

### APRIL, Continued

#### PLANT OUTDOORS, Continued

Onion Sets
Parsley
Parsnip
Peas, Early Wrinkled
Potatoes
Radish
Rhubarb, Roots
Swiss Chard
Squash
Turnip
Set out Lettuce-started indoors in March.

### MAY

#### PLANT OUTDOORS

Beans, Bush
Beans, Pole
Corn, Sugar
Cucumber
Muskmelon
Watermelon
Okra
Peas, Late
Pumpkin
Squash

All the seeds mentioned in the April table may also be sown in May.

Set out early cabbage, early cauliflower and tomato plants started indoors in March and April.

### JUNE

#### PLANT OUTDOORS

Beans, Late Bush
Beans, Late Pole
Set out Globe artichokes, Brussels sprouts, late cabbage, cauliflower, celery, eggplants, and peppers which have started indoors.
Plant Swiss chard, sugar corn, lettuce, late peas, radishes and turnips for late crops.

Gentlemen: Your Little Marvel Peas are simply marvelous. They are the finest peas I ever grew.

Yours truly,  
H. B. BELL, Ruxton, Md.



# SPRAYING TABLE

WHAT TO SPRAY AND WHAT TO SPRAY FOR	SPRAY WITH	TIME OF FIRST SPRAYING	TIME OF SECOND SPRAYING	TIME OF THIRD SPRAYING
<b>APPLES—</b>				
Bitter Rot.....	Bordeaux mixture.	First appearance of rot.	One to two weeks later.	Two weeks later.
Canker Worm.....	Arsenate of lead, paris green.	On first appearance of worms.	Two or three days later if worms remain.	Same as second.
San Jose Scale.....	Scalecide or Commercial lime-sulphur.	Just as the leaf buds are swelling.	Just before the flower buds open.	As soon as the petals have fallen.
Scab .....	Scalecide or lime-sulphur.	After the leaves have come out, but before the flower buds appear.	Within eight days from the time petals drop.	One month later.
Codling Moth.....	Arsenate of lead.	Within eight days from the time the petals drop.	One month later.	
<b>ASPARAGUS—</b>				
Beetle .....	Arsenate of lead.	Early spring.		
Rust .....	Bordeaux mixture.	After cutting crop.	Ten days later.	Ten days later.
<b>CABBAGE AND CAULIFLOWER..</b>	Micro, Slug Shot, Bug Death, etc.	On first appearance of worms.	Whenever worms are noticed.	
<b>CELERY—</b>	Bordeaux mixture.	On young seedlings.	Repeat on seedlings.	Before or after transplanting.
<b>CHERRY—</b>				
Aphis.....	Kerosene emulsion.	At first appearance.	Repeat as necessary.	
San Jose Scale.....	Scalecide or Commercial lime-sulphur.	Spray same as for apples.		
Leaf-spot .....	Scalecide or Lime-sulphur.	Just before blossoms open.	When fruit is free from calyx.	
<b>CUCUMBERS—</b>				
Anthraxnose .....	Bordeaux mixture.	When plants begin to run.	Two weeks later.	Two weeks later.
Downy Mildew.....	Bordeaux mixture.	When plants begin to run.	Ten days later.	Nine days later.
<b>CURRENT—</b>				
Leaf-spot .....	Bordeaux mixture.	As leaves are unfolding.	Two weeks later.	Two weeks later.
Worm .....	White hellebore.	When they first appear.	In three or four days.	Repeat three or four days later.
<b>GOOSEBERRY—</b>				
Leaf-spot.....	Bordeaux mixture.	Before leaves start.	Two weeks later.	Two weeks later.
Worm .....	Same as for Currants.			
Mildew .....	Grape Dust.	When buds are breaking.	Repeat every ten days until fruit is gathered.	
<b>GRAPE—</b>				
Anthraxnose .....	Bordeaux mixture.	Just before buds open.	Just before blossoming.	After fruit has set.
Berry Moth.....	Arsenate of lead.	Before blossoms are ready to open.	After blossoms have fallen.	Ten days later.
Downy or Powdery Mildew .....	Bordeaux mixture.	Just before blossoming.	After fruit has set.	Ten days later.
Rot .....	Bordeaux mixture.	Just before blossoming.	Just after fruit has set.	Eight days later.
<b>MUSKMELON—</b>				
Anthraxnose .....	Bordeaux mixture.	When plants begin to vine.	Two weeks later.	Two weeks later.
Downy Mildew.....	Bordeaux mixture.	July 25 to August 1.	Ten days later.	Nine days later.
Leaf-blight .....	Bordeaux mixture.	When plants begin to vine.	Three weeks later.	Three weeks later.
<b>PEACH—</b>				
Leaf-curl .....	Scalecide, lime-sulphur or bordeaux mixture.	In March or April, or both, to make doubly sure.	Two or three weeks later.	
Brown Rot.....	Self-boiled lime-sulphur and arsenate of lead.	About time shucks are shedding from young fruit or on first appearance.		About one month before fruit ripens. Omit arsenate of lead.
Scab .....	Bordeaux mixture.	Just as buds begin to swell.	After fruit has set.	Repeat later when fruit is about half grown.
San Jose Scale.....	Scalecide or lime-sulphur.	Spray same as for apples.		
<b>PEAR—</b>				
Leaf-blight .....	Bordeaux mixture.	Cut out the branches on first appearance on twigs.		
Psylla .....	Kerosene emulsion or whale-oil soap.	In winter, use commercial lime-sulphur for eggs.	After blossoms fall.	Repeat at intervals of three to seven days.
<b>PLUM—</b>				
Curculio .....	Arsenate of lead.	With starting of buds.	Just after blossoms drop.	Five days later.
Aphis.....	Whale-oil soap.	On appearance of aphids.	Three weeks later.	Three weeks later if necessary.
Shot-hole Fungus.....	Scalecide, lime-sulphur or Bordeaux mixture.	When leaves are half grown.	Just after calyx drops.	Three or four weeks later
Rot .....	Bordeaux mixture.	As buds are swelling or on appearance.		
<b>POTATO—</b>				
Early Blight.....	Bordeaux mixture.	When plants are 6 inches high.	Seven to ten days later.	Two weeks later.
Late Blight.....	Bordeaux mixture.	As for early blight to July.	July 15 to 20.	Two weeks later.
Potato Beetle.....	Paris green, micro, slug shot, bug death.	When pest appears.	Repeat if necessary.	
<b>RASPBERRY—</b>				
Anthraxnose .....	Bordeaux mixture.	Before leaves open.	When new canes are 6 to 8 inches high.	Ten days later.
Saw-fly .....	Paris green and arsenate of lead or hellebore.	When pest first appears.	Repeat in three or four days.	
Leaf-spot .....	Bordeaux mixture.	When leaves are half grown.	Two weeks later.	Two weeks later.
<b>ROSE—</b>				
Leaf-spot .....	Bordeaux mixture.	On first appearance of fungus.	Two or three weeks later.	Repeat if necessary.
Mildew .....	Thanatus, black leaf, 40.	On appearance of slugs.	Repeat if necessary.	
Slug .....	Nicofume Liquid.			
<b>STRAWBERRY—</b>				
Leaf-spot .....	Sulphate of iron, bordeaux mixture.	Soon after growth begins.	Make three or four sprayings during season.	The following spring spray just before blossoming and again 10 days later.
<b>SQUASH—</b>				
Aphis.....	Kerosene emulsion.	Spray underside of leaves.		
Lady Beetle.....	Arsenate of lead.	As soon as pest appears.		
<b>TOMATO—</b>				
Anthraxnose .....	Bordeaux mixture.	Soon after fruit begins to set.	Three weeks later.	Three weeks later.
Leaf-blight .....	Bordeaux mixture.	Three weeks after transplanting.	Three weeks later.	Three weeks later.
White Fly.....	Whale-oil, soap and water.	Spray underside of leaves thoroughly.		

Col. C. B. Rogers, Stevenson, Md., tells us that up to the time he bought seeds elsewhere, he had never had complete satisfaction. He purchased seeds from us last season and had most wonderful results. Especially with Cantaloupes, Watermelons, Early Peas, Corn, Lima Beans and Potatoes. From half bushel, 30 lbs., Irish Cobbler Potatoes planted, he harvested 5 bushels and a quarter peck, or 303¾ lbs.



# M. & S. Celebrated Lawn and Field Grass Seed Mixtures

## M. & S. Roland Park Lawn Grass

One of the most essential parts of the country place and suburban home is a carefully made and well-kept lawn. No trouble should be spared in its making, as much of the future results depend upon the start or foundation of the lawn, which, if correctly made, can easily be kept in perfect condition for years, and give pleasure not only to the owner, but to others who see it. In seeding for lawn-making, care should be taken that a well-balanced mixture of grasses is used, one composed of such varieties as will blend together well and also ripen successively, thus securing a healthy and beautiful color throughout the summer. This special mixture produces beautiful and permanent lawns. It is made from our own formula, and composed of grasses which are adapted for the purpose of producing turf which retains its rich green color and velvety appearance throughout the entire summer and fall. In making up this brand we are careful to use seed that has been thoroughly re-cleaned, the light seed and chaff having been blown out.  $\frac{1}{4}$  lb., 10c.;  $\frac{1}{2}$  lb., 15c.; lb., 25c.; 5 lbs., \$1.10; bu. of 20 lbs., \$4.00.

**M. & S. Shady Nook Grass.** It is quite difficult to obtain a satisfactory growth of grass under trees and in shady places; for sowing in such places we recommend the use of this special mixture. It will quickly produce an abundant and even growth of beautiful green grass. The grasses used in making this special mixture are only those that are well adapted for growing in shade. It has been successfully used on some large operations where a green sward was

desired on land partially shaded by old trees.  $\frac{1}{2}$  lb., 20c.; lb., 30c.; 5 lbs., \$1.35; bu. of 20 lbs., \$4.75.

**M. & S. Pleasure Grounds Mixture.** For fair greens, golf links, athletic grounds, etc. The turf required for pleasure grounds must be of a character to withstand rough usage. This special mixture is made from our own formula, and will produce a permanent turf that will stand the hardest wear. For tennis courts, cricket tables, golf links, polo grounds, or wherever a good sward is wanted, this seed will give perfect satisfaction. We believe that the golf links should be as fine as a velvety lawn, hence the need of a fine mixture. Lb., 25c.; 5 lbs., \$1.00; bu. of 20 lbs., \$3.75.

**M. & S. Terrace Mixture.** For embankments and terraces. Lb., 25c.; 5 lbs., \$1.00; bu. of 20 lbs., \$3.75.

**White Clover.** (*Trifolium repens*.) Some White Clover is usually included in lawn-grass mixtures. It makes an excellent turf that stands constant trampling. It is of dwarf habit, spreads rapidly and is very hardy. It is valuable in permanent pastures, being sweet and nutritious. Sow in Spring or Fall. In mixtures, two pounds; if alone, ten pounds to the acre. Fancy re-cleaned seed,  $\frac{1}{4}$  lb., 15c.;  $\frac{1}{2}$  lb., 30c.; lb., 50c.

**M. & S. Special Grass Mixture for Hay and Pasture.** M. & S. Pasture Mixture is prepared to meet the average need. It is made up of the grasses best calculated to afford an abundant and nutritious food supply for stock. Its formula is based upon successful experience. For all ordinary permanent pasturage it will be found entirely satisfactory. Bushel of 14 lbs., \$2.75.



## LANDSCAPE GARDENING—A New Innovation

If you want to lay off a new place in shrubs or flower beds, give us the size of your lot, and our Landscape Expert will make suggestions FREE of Charge.

We are constantly in touch with leading Landscape Gardeners and are best prepared to lay off your gardens to be a show place in your community.

A few of the many testimonials received on the merits of M. & S. Grass Seeds:

Gentlemen:

It affords me great pleasure to state that I have never had such wonderful results before as I have had with your M. & S. Roland Park Lawn Grass Seed.

Respectfully,

REV. W. P. DAME,  
1409 Bolton St.,  
Baltimore, Md.

James W. Speucer, Gardener at Roland Park, informs us that he has never had such excellent results in making lawns as he has had since using our M. & S. Roland Park Lawn Grass Seed.

On December 6, 1913, Mr. J. W. Zimmerman, of Montebello Park, quotes as follows: "I planted your Roland Park Lawn Grass Seed to make a new lawn. It has been cut three times, and could be cut again if the season was not so far advanced."

Mr. A. T. Chalk, Superintendent of "Homewood," the Athletic Field of the Johns Hopkins University, states that the grass seed purchased of us gave quicker and better results than any other he has ever sown.



## The Everblooming Butterfly Bush

(*Buddleya Variabilis Magnifica*)

Recently Introduced by a Leading Philadelphia Seed House

READ WHAT THEY SAY ABOUT IT



Flowerhead or Butterfly Bush.

It was a matter of some thought before we finally christened this highly desirable plant with the common English name by which it goes. Several years ago we imported from Europe some plant novelties and this was among them. We observed it carefully for a season, and were charmed with its beauty, ease of culture and free-flowering habit. The name, "Butterfly Bush," was applied to it because it seemed to attract butterflies in large numbers. Particularly we noticed that it was not the common little yellow species of butterfly, but rather the large and gorgeously colored ones that swarmed about it as though vying with it in brilliancy of color. This shrub from a young plant set out in May will mature to full size the first season, producing a handsome bush which the first year often attains a height of four feet. It produces long, graceful stems which terminate in tapering panicles of beautiful lilac-colored flowers that are of miniature size and borne by the hundreds on a flowerhead which is frequently ten inches long. A single plant the first season will throw out as many as 50 flower spikes, which increase greatly in number during succeeding years. The year after planting it generally commences to flower in June and continuing each season until severe frosts nips it. It is rather semi-herbaceous, by which we mean in some latitudes it will die down to the ground and, while perfectly hardy, we do recommend covering the roots with manure, as winter approaches, as this will produce a heavy growth the following season. This plant is very desirable as an individual specimen in the lawn and garden, or placed promiscuously in the shrubbery border.

### SPECIAL MERITS:

1. Very hardy.
2. Blooms the first season.
3. Flowers from early summer till frost.
4. Rich, striking color.
5. Splendid for cutting. Very free flowering.
6. Will thrive anywhere.

Order early, as last year we could not supply sufficient. Price for strong young plants, which will bloom the first season, if set out early (ready in May), 25c. each, \$2.50 per doz.

## TWO NOVELTY DAHLIAS. Celeste Meyer and Eleanor Stisser.



Celeste Meyer

streaks of red and white. In others the marking is not so distinct, giving a shading of pink and white; a very attractive and pleasing flower; a very prolific bloomer. The supply of this, our latest creation in Dahlias achieved through untiring effort and at great expense, is not very plentiful, and we ask our customers who would like to try one or several of this variety to please order early so that they will not be disappointed in the latter part of the season. Price, 25c. each.



Eleanor Stisser

**Eleanor Stisser.** A fine, large, decorative type originating in 1911, and is now offered for the second time to the public. This variety is a tall grower, making a height of five to six feet, strong and vigorous. Its color is quite new in the Dahlia family, being a combination of shadings quite unique—Buff to Salmon Rose with a distinct shading of Pink, a pleasing combination of coloring and one that is especially effective in connection with autumn foliage. Flowers well above the foliage. The supply of this, our latest creation of Dahlias, achieved through untiring effort and at great expense, is not very plentiful, and we ask our customers who would like to try one or several of this variety to please order early, so that they will not be disappointed in the latter part of the season. Price, 25c. each.

**BOX COLLECTION OF DAHLIAS.** A new departure; put up in sets of twelve assorted varieties, unlabeled, embracing a wide range of colors, Red, White, Pink, Yellow, Varigated, etc., no two alike. This collection is put up in a telescope box and is sent through Parcel Post to any parts of the United States for \$1.00.

Gentlemen: Your new Dahlias, Celeste Meyer and Eleanor Stisser, surpass by far your description and illustration.

Yours for success,

J. F. SHARRETT, Bonner Road, Forest Park.



## M. & S. Seed Specials for 1915

**M. & S. GILT EDGE SWEET PEA MIXTURE.**

**M. & S. PAEONIE FLOWERING ASTER.**



Choicest mixture of beautiful colors. Glowing crimson, light-blue, pink, purple violet, pure white and brilliant rose. This is the most perfect, very double, large and finely shaped aster in cultivation. Pkt., 10c.; 3 pkts., 25c.

### EARLY FORTUNE CUCUMBER.

This new variety of cucumber was discovered several years ago in a field of "Davis Perfect," and is now so thoroughly established that large fields do not show any variation in plant or fruit. The vines make a strong and vigorous growth, producing abundant crops of cucumbers, which are slightly longer than Arlington White Spine, more cylindrical in shape and have a very dark green skin. The flesh is thick, seed cavity relatively small and the quality is excellent. This variety is one of the best introduced in years. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 20c.; lb., 75c.

### WHITLOOF CHICORY, OR FRENCH ENDIVE.

Known in restaurants as French Endive. The stalks when blanched make a delicious salad. It is used in Europe as a boiled vegetable. We want to get our customers interested in this delicious vegetable, and feel confident that after it has once been tried it will become quite as popular as Swiss Chard which was only planted very sparingly a few years ago. Every garden should have a row of Witloof Chicory and we feel sure that every amateur or experienced gardener will be pleased with the results.

In order to grow good "Witloof" the seed should be sown during April in the open ground, in drills 10 or 12 inches apart, in deep, rich soil. Allow the plants to grow until November, keeping free from weeds and watering if necessary. Then take up the roots and trim off the leaves to about  $1\frac{1}{2}$  inches from the neck, break off any shoots which may appear on sides of root, and shorten lower end so that all will be of a uniform length of 8 to 10 inches. Then plant in a trench 16 to 18 inches deep, placing the roots upright, about  $1\frac{1}{2}$  inches apart. This will leave the necks of the roots about 8 inches below the level of the ground. Fill up the trench with good, light, well-drained soil, and, if speedy growth of any portion of the crop is desired, it may be accomplished by covering with a layer of manure at least 16 inches deep. In about 4 to 5 weeks the leaves will attain their proper size, and the manure may be taken off and roots dug up. The blanched head is the edible portion, and should be cut off, leaving a portion of the neck attached to it. Witloof is eaten raw or as a salad, and is also sometimes cooked like ordinary Endive. Pkt., 5c. and 10c.; oz., 15c.;  $\frac{1}{4}$  lb., 40c.



Witloof  
Chicory

This superb mixture is blended by us with extraordinary care from named varieties of the most approved large flowering type, including recent American and European novelties, as well as a great many new hybrids, as yet un-named, insuring a gorgeous color effect. There has been a short crop of Sweet Peas for the past two seasons. Consequently the seed supply is very short. We will endeavor to adhere to the catalogue price as long as we can. Intending purchasers are advised to order as soon as possible after receipt of catalogue. It will be almost impossible to replace our "M. & S." Gilt Edge Mixture after our supply is sold. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 25c.;  $\frac{1}{2}$  lb., 40c.; lb., 75c.

**Woodruff (Ger. Waldmeister).** A sweet scented herb which is used as essence in the German Maitrank. Pkt., 15c.

### BLACK BEAUTY EGG-PLANT.

This beautiful Egg-Plant is a great improvement over the well-known and largely-grown New York Improved Large Purple. The plants are remarkably healthy in their growth, and produce an abundance of large fruits fully ten days earlier than the New York Improved. The skin is of a rich purplish-black color, making the fruit very attractive in appearance. It is also entirely spineless. The quality is all that could be desired. Pkt., 5c. and 10c.; oz., 25c.;  $\frac{1}{4}$  lb., 85c.

### DANISH PICKLING CUCUMBER.

A new introduction from Denmark. Seeds extremely scarce. A very prolific grower producing small dark green warty fruit, especially desirable for pickling. Sold in 25c. packages only.

Gentlemen: It affords me great pleasure to inform you that your "M. & S." Goldlined Rocky Ford Cantaloupe is the finest that I ever tasted; not only that, but from the ounce of seed which I purchased from you and planted, I raised quite a patch and every melon on it cut fine.

Yours truly,

P. H. FRIESE, Sparks, Md.



## M. & S. Delphinium (*Larkspur*)

(Ger. Rittersporn).

In variety and beauty of its blue tints, which are as numerous as they are charming, no other plant can equal the Delphinium. The brilliant flowers are strongly effective in beds or masses, in borders, shrubberies, or in combination with white lilies. Improvements are continually being made in the size of the flowers, as well as in the length and fullness of the spikes. Some of the species flower both early and late; the season for all can be prolonged by cutting away withered flower-stems. All varieties are easily cultivated and adaptable to many conditions, but in a soil deeply dug and well enriched with fine old manure, their blooms are the finest. Setting them 1½ to 2 feet each way is not too much for the taller sorts.

**Kelway's Giant.** A strain recognized the world over as a prize-winner; plants are of strong, vigorous growth, with immense spikes of large flowers; many shades of blue; 5 feet. Large pkt., 25c.; pkt., 10c.



Delphinium Kelway's Giant.

**Formosum.** Blue, white centre. **Chinense Album.** White. **Chinense Azureum.** Blue. 10c. pkt.; 3 for 25c.

**Chinense, Mixed (C. grandiflorum).** Large flowers, ranging from pure white to indigo-blue. Young seedlings will bloom from midsummer until frost; 2 to 3 feet. 10c. pkt., 3 for 25c.

## M. & S. Pansy



**M. & S. Giant Exhibition.** A blending of our own containing only the very choicest the specialists in Europe have to offer; it can be

Gentlemen: Last spring I bought a packet of your Triumph of the Giant Pansies, and never in my long experience of growing Pansies have I had such beautiful flowers and a grand variety of colors.

relied upon to produce flowers of immense size, very heavy texture and of the most brilliant colors. 10c. pkt.; 3 for 25c.; \$2.50 per oz.

**Triumph of the Giant Pansy.** Immense flowers of great brilliancy and richness of coloring, including many new and rare shades. Pkt., 25c.; 5 pkts, \$1.00.

## M. & S. Giant Stringless Greenpod Beans

**M. & S. Giant Stringless Green Pod Beans.** This strain is without doubt the most tender string bean in cultivation, even when the pod has become quite old it still retains its stringless qualities; that, however, is not the only thing in its favor, it recommends itself



M. & S. Giant Stringless Greenpod Beans.

through its extreme earliness, prolific and continuous bearing qualities and superior flavor. This variety can be planted successively through the entire season; its handsome round pods often seven inches long delight the eye of any housewife; they fairly melt in your mouth. The leading sort for the home or market garden. Pt., 20c.; qt., 35c.; 4 qts., \$1.25.

## M. & S. Improved Crimson Globe Beet

**Crimson Globe (M. S. Improved).** Almost round in shape, of a rich deep red color. It has a distinct delicious flavor and is very tender, good for sowing early for forcing and summer use. The Ideal Beet for the home garden. Pkt., 5c.; 10c. per oz.; ¼ lb., 30c.; \$1.00 per lb.



M. & S. Improved Crimson Globe Beet.

W. R. BOWERS, Arlington, Md.



## M. & S. Seed Specials for 1915



### M. & S. Gladstone Peas

**M. & S. Gladstone Peas.** The finest medium early in cultivation. Extra fine, large, recurved pods, well filled with peas of finest flavor; very productive. 3 feet high. Supply limited. Pkt., 10c.; Pt., 25c.; qt., 40c.; 4 qts., \$1.50; pk., \$2.50.

**M. & S. Sherwood Peas.** Very hardy and immense cropper, the largest-podded variety of the extra early and really may be classed a Dwarf Gradus, which variety it resembles, except that it only grows about 18 inches high and does not require any support. The vines make a vigorous growth, which enables them to withstand weather conditions unsuited to some of the large podded varieties, and the pods are well filled with large peas, which have an exquisite flavor. While the crop does not mature until a few days later than "Gradus," the quality of this new variety is equally as good. Pkt., 10c.; pt., 25c.; qt., 40c.; 4 qts., \$1.50; pk., \$2.50.

**M. & S. Little Marvel Pea.** An extremely valuable variety, superior to Nott's Excelsior and American Wonder, especially suited to small home gardens, and also a splendid variety for early market gardening. It matures very early and produces large crops. The vines grow about 15 to 18 inches in height. The pods are dark green, fair sized, produced in pairs, and are closely filled with seven to eight peas of extra fine flavor. Pt., 15c.; qt., 25c.; pk., \$1.75; bu., \$8.00.

### M. & S. FILL BASKET.

On account of the large yields that have been reported of this potato, our sales on it have increased wonderfully. It is of handsome shape and most desirable for the best trade. It is a vigorous grower, ripens uniformly, is a good keeper and is fast becoming one of the most popular medium late varieties. The vines are always very heavy, the seed being especially vigorous, and tubers always good size where soil is well tilled. Our customers will find the M. & S. Fill Basket a very reliable potato. Very smooth and a good cooker. We can furnish nice stock while the supply lasts. Pk., 60c.; bu., \$2.00; bbl. sack, \$4.50.



M. & S. Fill Basket Potatoes.

### M. & S. BELVEDERE LETTUCE.

In 1912 we introduced this grand Lettuce after having it in our trial grounds for two seasons, and we were amply repaid by the success which our Truck Farmer customers had with it. (Read what Mr. John Comes says about it.) The M. & S. Belvedere is extremely slow in running to seed; it is therefore the ideal lettuce to plant in the Spring, as it withstands the Summer heat better than any variety we have known so far. It is all green, no red edges, is tender and crisp and has a fine yellow heart. The seed is scarce, and we advise our customers to order quick. Pkt., 10c.; oz., 25c.; ¼ lb., 75c.; 1 lb., \$2.50.

### M. & S. DELICIOUS GOLD-LINED ROCKY FORD CANTALOUPE.

This strain of the Eden Gem type is the result of several years selection by one of the most progressive farmers of Rocky Ford, Colo. Its shape is ideal, very slightly oval, no ribs, and it is heavily netted over the entire melon. The bloom button is small and flesh as thick at the end as elsewhere. The melon is thick meat, fine grained and sweet; color green, with a gold margin next to the seed cavity. Our claim for this melon is its uniform shape, size and very superior quality. Its flesh is attractive and elicits favorable comment when served. Every seed we offer from this strain will be from a select melon and hand seeded. We recommend this seed for the use of Melon Growers' Associations and high-class Market Gardeners. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.; 1 lb., \$1.50.

### SWISS CHARD, OR SPINACH BEET. GIANT LUCULLUS.

The leaves of Swiss Chard are used as greens, cooked in the same manner as spinach, and the large ribs are prepared like asparagus, in which manner they are delicious. Giant Lucullus is the largest and best variety of Swiss Chard, and you should not fail to plant at least one long row in your garden this Spring. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

### COPENHAGEN MARKET CABBAGE.

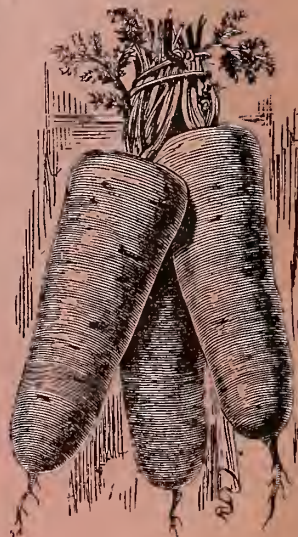
A valuable new early cabbage from Denmark, producing a large globe shape head, which comes into market along with Charleston Wakefield. It is well known that Denmark is a great cabbage and cauliflower country, and our seed comes direct from the originator. Produces fine, large heads uniform in shape and size and very solid, with few loose leaves. It is a vigorous grower and an excellent keeper. We have grown it for two years on our trial grounds where it excited great admiration. Pkt., 10c.; ½ oz., 20c.; oz., 35c.; ¼ lb., \$1.00.

### PRIDE OF THE MARKET CARROT.

An ideal medium early, stump-rooted carrot; smooth and uniform in shape, averaging five inches in length, with thick, heavy shoulders, rather large tops and deep orange color. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

### RUBY KING, EXTRA EARLY RADISH.

Of brilliant red color, fine for forcing or open ground; roots are tender, juicy and mild. The best round red Radish that grows. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; ½ lb., 30c.; 1 lb., 50c.



Gentlemen: I want to inform you that when all other Lettuce had gone to seed and was burnt up this past summer, I was still hauling fine heads of Lettuce produced from your M. & S. Belvedere Lettuce Seed.

Yours truly, JOHN COMES, Fullerton, Md.



# M. & S. Reliable and Tested Vegetable Seeds

## ASPARAGUS—Seeds and Roots (Ger. Spargel).

One ounce to forty feet of drill. 5 lbs. per acre.

**Culture.** Sow in March or April, in rows one foot apart. When two years old transplant into permanent heds, which should be well and deeply manured, and trenched to the depth of two feet. In planting for private use, set out in beds five feet wide, three rows in a hed, the outer being each one foot from the edge, and allow eighteen inches between the rows; set the plants from four to six inches below the surface. If set out in autumn, top-dress with six inches of manure. For market, on a large scale, set out four by one-and one-half feet. On the approach of winter cover with manure or compost; fork the heds early in the spring, and apply a dressing of salt. Cut for use the second year after planting in permanent hed. Never cut too closely. The roots need the benefit of some foliage during the year, else they will weaken and die. Slugs are easily destroyed by applying air-slaked lime or paris green.

**Giant Argenteuil.** A new and entirely distinct variety that produces shoots that are white, and remain white as long as fit for use. Pkg., 5c. and 10c.; oz., 15c.; ¼ lb., 25c.; 1 lb., 75c.; two-year-old plants, 100, \$1.00; 1000, \$7.50.

**Columbian Mammoth White.** Pkg., 5c.; oz., 10c.; ¼ lb., 20c.; 1 lb., 50c. Two-year-old plants, 75c. 100; \$5.00 1000.

**Conover Colossal.** Of large size, tender and of excellent quality. Green shoots. Pkg., 5c.; oz., 10c.; ¼ lb., 20c.; 1 lb., 50c.; two-year-old plants, 75c. 100; \$5.00 1000.

**Paletto.** It is of very large size, even and regular in growth and appearance. It is a very early sort, and immensely productive and of the best quality. Green shoots, Pkg., 5c.; oz., 10c.; ¼ lb., 20c.; 1 lb., 50c.; two-year-old plants, 75c. 100; \$5.00 1000.

## ACCESSORIES FOR ASPARAGUS CULTURE.



Even where one has a limited amount of asparagus to market it pays to use a huncher. It is quickly tied and looks uniform. With Knife Guard, \$1.50.

**Asparagus Knife.** V-shaped blade, 30c.

**Asparagus Salt.** Applied in the spring, 600 to 800 pounds per acre, for destroying weeds. 100 lbs., \$1.00; 200 lbs., \$1.50.

**Raffia.** The ideal material for tying asparagus. 20c. a lb. in hanks. Special price in quantity; hanks run about 2½ lbs.

**Jute Twine.** Very soft and pliable. 10c. per ball; 25c. 1b.

## ARTICHOKES.

**Large Green Globe.** This is a very delicious vegetable. Some prefer it cooked like asparagus; that is, take the flower head before it begins to open and cook much the same way as asparagus. Pkt., 10c.; oz., 35c.

**Artichoke Roots (Jerusalem).** The tubers roasted or boiled, served with butter, salt and pepper, make a dish some think superior to potatoes. They are most excellent feed for cows, and will cause an increase in quantity and quality of milk. Pk., 75c.; bu., \$2.50.

## BRUSSELS SPROUTS (Ger. Rosenkohl).

One ounce will produce 2000 plants.

A variety of the Cabbage family, possessing the peculiarity of bearing upon its stem or stalk from fifty to one hundred huds resembling miniature Cabbage heads. The leaves composing these heads resemble Savoy Cabbage in their crumpled texture and also in their color. The heads or huds, one to two inches in diameter, form one of the most delicious garden vegetables, only equaled by the Cauliflower. Treat same as Cabbage.

**Improved Dwarf.** Produces compact sprouts of the finest quality; a good keeper. Pkt., 5c. and 10c.; oz., 20c.; ¼ lb., 60c.; 1 lb., \$1.75.

## BROCCOLI (Ger. Spargelkohl).

One ounce of seed to 200 feet of row.

A plant much resembling the Cauliflower. Broccoli requires a longer season to develop than Cauliflower. It has more numerous and stiffer leaves, and the heads are smaller. Treat same as Cabbage.

**Early Large White.** Heads medium size, close and compact. One of the most certain to head. Pkt., 10c.; oz., 30c.; ¼ lb., \$1.00.

**Early Purple Cape.** Rather harder sort, with greenish-purple heads, good flavor. Pkt., 10c.; oz., 30c.; ¼ lb., \$1.00.

## BEANS (Ger. Bohnen).

**Culture.** The seed should not be planted before the ground becomes light and warm, in favorable seasons, usually about the middle of

April to first of May. The soil should be rich and mellow, and the seeds scattered about three inches apart in drills two feet apart, and covered about two inches deep. Successive sowings made at intervals of about two weeks until August 15th, will give a plentiful supply of Beans all season. One quart of seed will sow 100 feet of drill; two bushels will sow an acre.

We furnish 5c. and 10c. packages of all Beans.

## BUSH BEANS (Green Pod).

**Hopkins Improved Extra Early Red Valentine.** One of the most popular early snap beans with round, fleshy pods about five inches in length; very brittle, tender and of fine quality. Pt., 20c.; qt., 30c.; pk., \$1.85; bu., \$7.00.

**M. & S. Giant Stringless Green Pod.** The round, dark green pods, giant in size, are absolutely stringless and unsurpassed in tenderness. For the garden, there are few that will give better satisfaction. Pt., 20c.; qt., 35c.; pk., \$2.50.



M. & S. Giant Stringless Green Pod Beans.

**Black Valentine, or May Queen.** Has very long handsome round pods, and being immensely productive places this variety as one of the most profitable for the market gardener. It is very early. Pt., 20c.; qt., 35c.; pk., \$2.75; bu., \$10.00.

**Dwarf Horticultural, or Cherry.** This is a broad, long, flat, meaty bean, very productive, delicious flavor. It also makes a good dried bean for winter. Pt., 20c.; qt., 35c.; pk., \$2.75.

We furnish 5c. and 10c. packages of all Beans.

(Beans continued on next page.)

**Farmogerm for Garden Peas.** Means bigger crops, healthier vines, early and more continuous crops. Per trial bottle 25c. and 50c.; \$2.00 per acre bottle. It will pay you to use this when you plant peas and beans. (See Index.)

Gentlemen:—I want to say that I get better results from M. & S. Seeds than any other I have planted.

Yours truly,

LOUIS WEIL, Franklinton, Md.



**Burpee's Stringless Green Pod.** An ideal variety having round, slightly curved, fleshy and exceedingly tender pods. Matures a few days earlier than the Giant sort. Pt., 20c.; qt., 35c.; pk., \$2.50.

**Rejager, or 1000 to 1.** One of the best snap Beans for main crop and late or succession plantings. It is enormously productive. The Beans are round-podded, tender and of excellent quality. Later than the early kinds, but bears much longer and is more productive. Pt., 20c.; qt., 30c.; pk., \$1.85; bu., \$7.00.

**White Navy, or Boston Pea Bean.** Yields large quantities of white shell beans, which are used for baking. Pt., 15c.; qt., 25c.; pk., \$1.25.

## WAX POD VARIETIES.

**Currie's Rust-Proof Black Wax.** Valuable for general use, being early, hardy, and a heavy yielder. Extra long flat pods of fine color, and not apt to rust. Pt., 20c.; qt., 35c.; pk., \$2.75; bu., \$10.00.

**Davis White Kidney Wax.** Pods remarkably long, straight and handsome, wax white color; enormously productive; seed white. Pt., 20c.; qt., 35c.; pk., \$3.00.

**Wardell's Kidney Wax.** In growth of vine and productiveness this variety exceeds any other wax podded bean. The long flat pods are of handsome appearance and usually free from rust. Pt., 20c.; qt., 35c.; pk., \$3.00.

**Improved Dwarf Black Wax.** Small plants of erect growth bearing flat thick pods about five inches in length, and of excellent quality. An early and reliable variety recommended for home use. Pt., 20c.; qt., 35c.; pk., \$3.00.

**Dwarf Black Wax.** Pencil Pod strain. It is so good that it is worthy of special notice. The pods are round, brittle, of handsome golden yellow color, and of buttery flavor which cooked. Pt., 20c.; qt., 35c.; pk., \$3.00.

**FARMOGGER (Nitrogen Gathering Bacteria).** This wonderful preparation will revolutionize your bean crop, both in quantity and length of bearing time. Use according to directions and always mention the crop for which it is wanted. See index for particulars. 25c. size, sufficient for one quart of Beans; other sizes, 50c.; 1-acre size, \$2.00; 5-acre size, \$6.00.

## POLE LIMA BEANS.

**Culture.** These require poles eight to ten feet long. The beans should be planted in May if the season is suitable. Set poles four feet apart each way, and plant four to six beans, about one inch deep, around each pole. Thin out to three plants to a pole. If the soil is rich, plant at the ends of plants when they over-run the top of the poles, to effect more perfect growth below. Lima Beans for early use may be grown in frames and transplanted. 1 qt. to 100 poles King of the Garden. Vigorous grower, bearing large pods, five to eight inches long. Beans large and of rich flavor. Pt., 15c.; qt., 25c.; pk., \$1.75; bu., \$6.00.

**Extra Large White.** The old favorite for home use or market. Our stocks are carefully selected. Pt., 15c.; qt., 25c.; pk., \$1.50; bu., \$5.75.

**Dreer's Imp., or Potato Lima.** Beans round and thick, delicious flavor, easy to shell, immense cropper. Pt., 15c.; qt., 25c.; pk., \$1.75; bu., \$6.00.

**Siebert's Early Lima.** Very fine, immense beans, which retain their color a long while. Pt., 15c.; qt., 25c.; pk., \$1.75; bu., \$6.00.

**Ford's Mammoth Podded.** Pods contain from five to seven beans; vine grows vigorously, and bears until frost. Pt., 15c.; qt., 25c.; pk., \$1.75; bu., \$6.00.

## BUSH LIMA BEANS.

1 qt. to 100 feet of drill.

**Culture.** Plant in rows two feet apart, and about one foot apart in the rows.

**Burpee's Bush Lima.** The true bush form of the old large lima. Pt., 15c.; qt., 25c.; pk., \$1.75; bu., \$6.50.

**Henderson's Dwarf Lima.** Beans are small, but their flavor is excellent. Pt., 15c.; qt., 25c.; pk., \$1.75; bu., \$6.50.

**Dreer's Bush, or Potato Lima.** Produces a medium size thick bean of fine quality. Pt., 20c.; qt., 30c.; pk., \$2.00; bu., \$7.50.

**Wonder Bush Lima.** Pods are truly enormous in size, abundantly and well filled with handsome beans, which are both larger and thicker than those of the popular Burpee's Bush Lima. Pt., 25c.; qt., 40c.; bu., \$6.00.

**King of the Garden**

**Pole Lima**

**Fordhook Bush Lima.** Similar to Dreer's, but far superior, bearing in clusters of from four to eight, averaging four large beans to the pod. Pt., 25c.; qt., 40c.; pk., \$3.00.

## ENGLISH, OR BROAD WINDSOR BEANS.

(Ger. Sau, oder Grosse Bohnen.)

**Culture.** Same as Bush Lima, only plant thinner. A bean similar to Lima Beans, but of different flavor and larger. Should be planted early, as they are very hardy. Pt., 15c.; qt., 25c.; pk., \$1.50.

We furnish 5c. and 10c. packages of all Beans.

William Hogarty, Gardener for the Honorable Mayor Preston, informed us that all the seeds which he purchased from us proved very satisfactory.

## POLE BEANS (Ger. Stangen Bohnen).

**Culture.** Same as Pole Lima.

**Horticultural.** Pods green, dashed with red when beans are matured. Very showy. Pt., 20c.; qt., 30c.; pk., \$1.75.

**Kentucky Wonder, or Old Homestead.** Very prolific, large pods. Pt., 20c.; qt., 30c.; pk., \$2.00.

**Lazy Wife's or White Cherry.** Pods six to eight inches long, entirely stringless, of a rich, buttery flavor when cooked as a snap bean; also a good, white shell-bean for winter. One of the very finest flavored. Pt., 20c.; qt., 30c.; pk., \$1.75.

## TABLE BEETS (Ger. Salatruabe).

One ounce of seed sows sixty feet of drill; five pounds will sow an acre in drills.

**Culture.** The soil best suited to the culture of the beet is that which is rather light, provided it is thoroughly mixed with manure. If wanted very early, sow in hotbeds and transplant; but for main crop sow in the spring as soon as the ground becomes fit to work, in drills 18 inches apart and two inches deep. For winter use sow as late as June. When the plants have attained three or four inches in height, thin out so that they stand five or six inches apart. Keep free from weeds. Before freezing weather sets in, the roots may be stored in cellars or pits, same as Potatoes; dry earth thrown over them before the straw and earth covering is put on insures their keeping over winter. Be careful not to bruise them in handling.

**Extra Early Flat Egyptian.** Maturing in an incredibly short time. Bulbs half globular, or flattened at the poles; roots very slim, skin smooth, leaves red and green, flesh quite dark. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; ½ lb., 60c. (Fig. 5.)

**Crosby's Improved Egyptian.** Very desirable. Thicker in body than the Egyptian, small necked and dark fleshed. Fine for early market. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; ½ lb., 60c. (Fig. 1.)

**Extra Early Eclipse.** Maturing in an incredibly short time, round-shape beet, Small top, and of excellent table qualities. Makes an attractive seller in market. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; ½ lb., 60c. (Fig. 4.)

**Edmund's Blood Turnip.** This beet, of American origin, is the most uniform of all Turnip Beets. The root is always smooth, round and handsome, tops small, of good marketable size. Color dark red, flesh purplish-red, crisp, tender, and sweet. An excellent keeper. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; ½ lb., 60c. (Fig. 7.)

**Detroit Dark Red.** (Fig. 2.) Blood-red, early, turnip-shaped variety. Has small, upright tops; fine round shape. Skin and flesh dark blood-red. Very tender and sweet. Remarkably uniform in growth, and a particularly desirable sort for truckers and market gardeners. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; ½ lb., 60c.

**Long, Smooth, Dark Blood.** (Fig. 6.) This variety has long, slender roots. The beets are seldom more than two inches through. Matures rather late, but is an excellent keeper. The flesh is dark red and quality sweet and tender. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; ½ lb., 75c.



**Crimson Globe.**

(See illustration on

Special, page 7.) A

second early variety,

does not grow

large and coarse,

the matured beets

being medium in

size and of good

shape. The flesh

and skin are both

very dark and

quality fine, being

sweet and tender.

The tops are small

and thick leaved.

Pkt., 5c.; oz., 10c.;

¼ lb., 30c.; ½ lb.,

\$1.00.

**Swiss Chard, or**

**Spinach Beet.**

**Giant Lucullus.**

The leaves of Swiss

Chard are used as

greens, cooked in

the same manner

as spinach, and the

large ribs are pre-

pared like asparagus,

in which manner they

are delicious. Giant

Lucullus is the largest

and best variety of

Swiss Chard, and

you should not fail to

plant at least one

long row in your

garden this

Spring. Pkt., 5c.; oz.,

10c.; ¼ lb., 25c.; ½

lb., 75c.

## BEET (Mangel-Wurzel) (Ger. Runkelrueben).

Used for feeding cattle. Sow five pounds per acre.

**Culture.** Sow in April and May in thoroughly plowed, well-manured soil, in drills two inches deep and about 18 inches apart. Thin out to 12 inches and keep the weeds down by frequent hoeing and cultivating. Low ground is best adapted for Mangel-Wurzel. An ever-increasing acreage is being planted for stock beets, because of the wonderful results by feeding them as shown by the reports of our Experiment Stations and leading farmers and stockmen. Fattening, breeding and milk cattle do equally well on them. About one-fourth of the daily rations should be of roots. Hog cholera is prevented by their use. Where many are grown a good drill and cultivator are needed. Five pounds sows an acre.

(Cattle Beets continued on next page.)



**CATTLE BEETS—Continued.**

**Jumbo Mangel.** Immense, long red, very fine quality. Oz., 5c.;  $\frac{1}{4}$  lb., 15c.; lb., 40c.

**Sladstrup Barres Mangel.** Recently introduced from Denmark. The finest, largest and most prolific Mangel in existence. Half-long, stump-rooted, yellow flesh. Outside color orange with red top. Oz., 5c.;  $\frac{1}{4}$  lb., 15c.; lb., 40c.; 5 lbs., \$1.75.

**Gate Post Mangel.** Large, yellow, excellent sort. Oz., 5c.;  $\frac{1}{4}$  lb., 15c.; lb., 40c.

**Mammoth Long Red.** This is an enormously productive variety, yielding from 50 to 70 tons to the acre, a single root often weighing from 20 to 40 pounds. It is the best long red mangel and very valuable for stock feeding. Oz., 5c.;  $\frac{1}{4}$  lb., 15c.; lb., 35c.; 5 lbs., \$1.50.

**Golden Tankard.** (Fig. 3.) The best long yellow mangel in cultivation. Relished by milch cows and sheep. Maturing earlier than other large sorts. Oz., 5c.;  $\frac{1}{4}$  lb., 15c.; lb., 35c.; 5 lbs., \$1.50.

**Improved White Sugar Beet.** An improvement on the other varieties of sugar beets, harder, and containing a greater percentage of sugar. Oz., 5c.;  $\frac{1}{4}$  lb., 15c.; lb., 25c.; 5 lbs., \$1.50.



Early Jersey Wakefield Cabbage.

**CABBAGE (Ger. Kopfkohl).**

One ounce will produce about 2500 plants; one-quarter pound for transplanting an acre.

**Culture.** Sow seeds in January or February in hotbeds, and transplant latter part of April or early in May to open ground, or an early sowing in open ground can be made as soon as weather will permit. Set the plants in rows two feet apart, and 12 to 18 inches apart in the row. For second early sow in April and transplant in May, or sow in May and transplant in July, setting plants in rows three feet apart and two feet in rows. Never plant in the same ground two years in succession.

Our Cabbage Seed is all grown from selected heads only, by a specialist on Long Island.

**EARLY VARIETIES.**

**Copenhagen Market.** A valuable new early cabbage from Denmark, producing a large globe shape head, which comes into market along with Charleston Wakefield. It is well known that Denmark is a great cabbage and cauliflower country, and our seed comes direct from the originator. Produces fine, large heads uniform in shape and size and very solid, with few loose leaves. It is a vigorous grower and an excellent keeper. We have grown it for two years on our trial grounds where it excited great admiration. Pkt., 10c.;  $\frac{1}{2}$  oz., 20c.; oz., 35c.;  $\frac{1}{4}$  lb., \$1.00.

**New Early.** The largest of the early cabbage. The head is roundish flat and remarkably solid. Pkt., 5c. and 10c.; oz., 15c.;  $\frac{1}{4}$  lb., 50c.; lb., \$1.50.

**Early Jersey Wakefield.** The finest oblong shaped cabbage in existence. The head is solid, there being very few outside leaves. Pkt., 5c. and 10c.; oz., 15c.;  $\frac{1}{4}$  lb., 50c.; lb., \$1.50.

**Large Charleston Wakefield.** Similar to Early Jersey, but the heads are more blunt, equally as solid, while it grows almost twice the size, but matures one week later. Pkt., 5c. and 10c.; oz., 15c.;  $\frac{1}{4}$  lb., 50c.; lb., \$1.75.

**Early Flat Dutch.** A dwarf-growing type, principally used for early summer. Pkt., 5c. and 10c.; oz., 15c.;  $\frac{1}{4}$  lb., 50c.; lb., \$1.75.

**Early Winalstadt.** Resembles the Early Jersey Wakefield somewhat, but the heads are more pointed and not so early. Pkt., 5c. and 10c.; oz., 15c.;  $\frac{1}{4}$  lb., 50c.; lb., \$1.75.

**SECOND EARLY VARIETIES.**

**Early Drumhead.** A large solid roundish flat-headed sort with few outer leaves. One of the best sorts to follow the Large Charleston Wakefield. Pkt., 5c. and 10c.; oz., 15c.;  $\frac{1}{4}$  lb., 50c.; lb., \$1.50.

**Henderson's Early Summer.** The leaves have a more bluish cast than the other cabbages; the heads are roundish flat. Pkt., 5c. and 10c.; oz., 15c.;  $\frac{1}{4}$  lb., 50c.; lb., \$1.50.

**Succession.** A very popular sort with the market gardeners. It matures about 10 days later than Early Summer. Pkt., 5c. and 10c.; oz., 15c.;  $\frac{1}{4}$  lb., 50c.; lb., \$1.50.

**LATE, OR WINTER VARIETIES.**

**All Seasons.** (Vandergraw.) A very large head, round and solid. It is valuable for Summer or Winter use. Pkt., 5c. and 10c.; oz., 15c.;  $\frac{1}{4}$  lb., 50c.; lb., \$1.50.

**Danish Ballhead.** An elegant medium late variety. Pkt., 5c. and 10c.; oz., 20c.;  $\frac{1}{4}$  lb., 60c.; lb., \$2.00.

**Late Flat Dutch.** (Improved Strain.) This has been selected especially for our trade, and seed was taken from the finest type of heads which were selected for solidity and uniformity. Pkt., 5c. and 10c.; oz., 15c.;  $\frac{1}{4}$  lb., 40c.; lb., \$1.50.

**Large Late Drumhead.** Much like the above except the heads are not quite as large nor as flat. Pkt., 5c. and 10c.; oz., 15c.;  $\frac{1}{4}$  lb., 50c.; lb., \$1.50.

**Perfection Drumhead Savoy.** A beautifully crimped-leaved sort, color a deep glossy green. The head is almost round. Pkt., 5c. and 10c.; oz., 15c.;  $\frac{1}{4}$  lb., 40c.; lb., \$1.50.

**Red Dutch Drumhead.** A red variety, used extensively for pickling. Pkt., 5c. and 10c.; oz., 20c.;  $\frac{1}{4}$  lb., 60c.; lb., \$2.00.

**Volga.** The heads often weigh 12 to 15 pounds. The interior is pure white. The heads are very solid. Pkt., 5c. and 10c.; oz., 25c.;  $\frac{1}{4}$  lb., 75c.; lb., \$2.50.

**CABBAGE PLANTS.**

**Early Sorts.** From hotbeds. All the leading varieties ready April 1st. 10c. doz.; 40c., 100 (by mail, 55c.); \$3.00, 1000.

**Late Sorts.** Ready July 1st. 40c., 100; \$3.00, 1000.

**CAULIFLOWER (Ger. Blumenkohl).**

One ounce of seed to 1500 plants.



**Culture.** When grown to perfection this is a most delicious vegetable, and well repays generous treatment in cultivation. With a deep, rich soil, and an abundance of moisture, which in dry seasons must be applied artificially, Cauliflower can be grown well. The cultivation is similar to that of the Cabbage. For early Fall crops, sow in May and transplant in June, in rows four feet apart, setting the plants two feet apart in the row; water frequently if the ground is dry. Frequent hoeing and a liberal supply of rich, liquid manure, to keep up a continuous and rapid growth, will produce splendid heads of the most delicate flavor. It facilitates blanching if the leaves are gathered loosely together and tied over the top of the head to protect it from the sun. Cut before the flowers begin to open. Sow as late as June 20 for late crops, in beds or in hills, covering one-half inch deep.

**Dr Weather or Danish Giant.** The great drought resisting variety; the heads are large, snow white and are protected with a liberal growth of foliage. This is the ideal variety to plant for summer use if you want to be sure of cauliflower at that season. Pkt., 10c., 25c., 50c.; \$2.00 per oz.

**Early Snowball.** An extremely early dwarf variety, producing magnificent white heads of fine quality. Well adapted to hotbed culture. Pkt., 10c., 25c. and 50c.; oz., \$1.50.

**Select Early Dwarf Erfurt.** Of highest excellence, and for field culture not much surpassed by any type of newer name. Some so-called new varieties appear to be identical with Select Erfurt. Pkt., 10c., 25c. and 50c.; oz., \$1.50.

**Veitch's Autumn Giant.** A distinct and valuable late variety; heads large and fine, well protected by foliage. Pkt., 5c. and 10c.; oz., 50c.

**CAULIFLOWER PLANTS.**

**Early Snowball.** Ready in April. 60c., 100 (by mail, 75c.); \$5, 1000.

Gentlemen: It affords me great pleasure to let you know that the garden seeds which I have bought from you the past three seasons have given me better satisfaction than any other I have ever purchased.

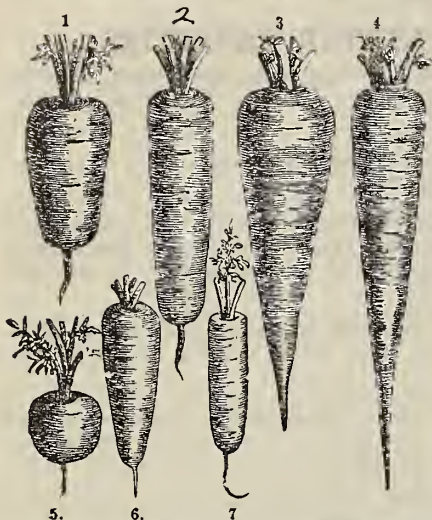
Yours truly,

N. E. OFFUTT, Cockeysville, Md.



**CARROT** (Ger. Moehre, oder Gelbe Ruebe).

One ounce to 100 feet of row. 2 or 3 lbs. to the acre.



**Pride of the Market.** (See illustration on Special, page 8.) An ideal medium early, stump-rooted Carrot; smooth and uniform in shape, averaging five inches in length, with thick, heavy shoulders, rather large tops and deep orange color. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

**Parisian Forcing.** (Fig. 5.) Extremely early, of small size, but very sweet, tender and beautiful orange red color. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

**Chantenay.** (Fig. 2.) Top medium sized, neck small, roots tapering slightly but uniformly stump-rooted and smooth; color deep orange-red; flesh very crisp and tender. Although this is a medium early sort, it furnishes roots of usable size as early as any, is a heavy cropper, and is undoubtedly one of the best for both the market and private garden, and its great productiveness makes it desirable as a field sort. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

**Danvers, or Half-Long Orange.** (Fig. 6.) Owing to its enormous yield, this variety is the best and most profitable for main crop, also desirable for feeding cattle. It is somewhat longer, thicker and a better keeper than the Chantenay. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

**Guerande, or Oxheart.** (Fig. 1.) A short thick carrot not exceeding four inches in length and about the same in width which does quite well on hard, heavy soils where the longer varieties are useless. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

**Intermediate.** (St. Valery.) (Fig. 3.) Matures earlier than Long Orange Improved; has shorter and broader roots which gradually taper to a point. Valuable for feeding stock. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

**Long Orange Improved.** (Fig. 4.) The longest and latest of all carrots; unsurpassed for its keeping qualities. Fine for feeding stock. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

**CORN SALAD** (Ger. Acker Salat).

Large Leaved Corn Salad.

**SWEET, OR SUGAR CORN** (Ger. Zucker Mais).

One quart will plant 200 hills; eight to ten quarts in hills to acre.

**Culture.** The Sweet or Sugar varieties, being liable to rot in cold or wet ground, should not be planted before May, or until the ground has become warm; for a succession, continue planting every two weeks, until the middle of July, in rich, well-manured ground, in hills three feet apart each way, covering about half an inch, and thin out to three plants to a hill. Extra early varieties can be planted 18 inches in the row and 2½ feet between the rows. The field varieties should be planted four feet apart each way, leaving three plants to a hill.

**Extra Early Adams.** Height of stalk three to four feet, ears set within six inches of ground. Not a sugar corn, but a decided acquisition so early in the season. Pt., 10c.; qt., 20c.; pk., 75c.; bu., \$3.00.

**Early Adams.** Similar to Extra Early Adams; larger, but not so early. Pt., 10c.; qt., 20c.; pk., 75c.; bu., \$3.00.

**Culture.** Sow in Spring, in drills one foot apart; it will mature in six to eight weeks. For Winter and early Spring use, sow in drills in August and September.

**Large Leaved.** Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

**Culture.** A light, loamy soil that has been well manured the previous year is preferred for growing Carrots, although good crops may also be obtained from ordinary garden soil. For early use seed may be sown in hotbeds from January until March, and in the open ground as soon as the weather becomes warm and settled, usually in April. Sow seed one-half inch deep in rows 15 inches apart, and later thin to five inches in the row. Keep soil between the rows well boed weeds. From July and free from 1st to 15th sow for Winter crops.



Snow White Evergreen Sugar Corn.

**Country Gentleman.** A short-stalked, productive sort. Ears large for so small a stalk; grain narrow and very deep; excellent quality. Pt., 15c.; qt., 25c.; pk., \$1.25; bu., \$4.50.

**Shoe Peg, or Ne Plus Ultra.** Very similar to the above. Pt., 15c.; qt., 25c.; pk., \$1.25; bu., \$4.50.

**Red Cob, or 90-Day Corn.** A distinct and well-known sort of white corn; matures in about 90 days; produces large, handsome ears. ¼ pk., 25c.; pk., 75c.; bu., \$2.50.

**CUCUMBER** (Ger. Gurke).

One ounce will plant fifty hills; two pounds, one acre.

**Culture.** For very early Cucumbers, sow the first of April in a hot-bed, upon pieces of sod or in small pots, so that they can be readily transplanted to the open ground (in rich soil) when danger of frost is over. For general crop plant, if the weather has become settled and warm, in hills about four feet apart each way; thin out to four of the strongest plants to each hill. They succeed best in a warm, moist, rich, loamy soil. For succession sow until the middle of August.



Early Fortune Cucumber.

**Early Fortune.** A great favorite with our Anne Arundel County farmers for its early maturity productiveness, uniformity in large size and dark green color. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

**New Klondike.** One of the best for shippers. Grows vigorous vines, fruits early and abundantly. Dark green in color, large size, and of fine flavor. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

**Improved Early White Spine.** The old standard favorite. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c. Special prices on large quantities.

Cucumbers continued on next page.

Mr. John H. Bowen, Pikesville, Md., says: "Your King of the Garden and Dreer's Pole Lima Beans gave me the best crop of Lima beans that I have had in my seven years' experience of farming."



**Arlington White Spine.** Another standard sort. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c. Special prices on large quantities.

**Improved Long Green.** Long and crisp; a popular and reliable variety for pickles. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

**Jersey Pickle.** Productive and said to "green" better than any other variety, and to "hold color." Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

**Livingston's Evergreen.** A very strong grower, very early, bears firm, crisp fruit, which is excellent for slicing or pickling. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

**Early Green Cluster.** A short, prickly variety, bearing clusters, prolific. Fine for bottle pickles. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

**Small Gherkin, or Burr.** Used only for pickling while young and tender. Pkt., 5c. and 10c.; oz., 25c.

**Danish Pickling Cucumber.** A new introduction from Denmark. Seeds extremely scarce. A very prolific grower producing small dark green warty fruit, especially desirable for pickling, sold in 25c. packages only.

**Japanese Climbing.** Distinct from other varieties, being a real climber. Very prolific of fruit. A valuable interesting novelty. Pkt., 5c. and 10c.; oz., 25c.

**English Forcing Telegraph Cucumber.** These are ideal for growing outdoors as well as under glass. They produce enormous fruits, generally 18 to 24 inches long and 3 inches in diameter. They have a delicate flavor and possess very few seeds; for slicing, no other sorts can approach them. Pkt. of 12 seeds, 25c.; 100 seeds, \$1.25.

## CELERY (Ger. Sellerie).

One ounce will produce about 2000 plants.

**Culture.** Sow the last of March or early in April, in an open border, in rich, mellow ground, in shallow drills, watering freely in dry weather. By rolling or pressing in the seed the result will be more satisfactory than when covered. Cut the tops off once or twice before planting out, to make them stocky. When the plants are five or six inches high transplant the dwarf varieties three feet, and the taller sorts four feet between the rows; plant six inches apart in the rows. Cultivate well, and when large enough, blanch by earthing-up. The first operation is that of "hand-

ling," generally done the beginning of September; after the soil has been drawn up with the hoe it is drawn closer around each plant by the hand to keep the leaves firm, in an upright position, and to prevent spreading. When the plants have become set in an upright position the Celery wanted for early use should be banked, by throwing the soil up as close to the plants as possible with a plow and finishing it with a spade, bringing the earth up nearly to the tops of the plants.

**French Golden Self-Blanching.** For early use; preferred by many to all other sorts; as self-blanching as white Plume, and simply needs a slight earthing-up. The entire plant is an attractive yellowish green, and approaching its maturity the inner stems and leaves become a beautiful waxy golden color. Grows to a good size, very tender, crisp and solid, and when well grown is of excellent quality and very beautiful. Seed supply very limited. Pkt., 10c. and 25c.; oz., \$1.25.

**White Plume.** Unsurpassed for Fall and Early Winter use, requiring very little earthing-up to blanch it. Pkt., 5c. and 10c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

**Giant Pascal.** The stalks are very large, thick, solid, crisp and of a rich, nutty flavor; it blanches very easily and quickly, and retains its freshness a long time. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

**Golden Heart.** Largely used, always giving satisfaction; a showy sort; solid, of fine flavor and a good keeper. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

**Boston Market.** A short, bushy, white, solid, excellent flavored market variety, constantly increasing in demand. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

**Winter Queen.** This variety grows a very thick, solid and heavy stalk, and has a large heart. It is a close, compact grower, and when blanched is a creamy-white color. Pkt., 5c. and 10c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

**Victory.** Runs a close second to the above, very similar. Pkt., 5c. and 10c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.



French Golden Self-Blanching  
Proven Seed.



**Celery Plants,** ready in July. 50c., 100; 1000 prices furnished on application.

## CELERIAC, OR TURNIP-ROOTED CELERY.

**Giant Prague Celeriac.** (Prager Riesen Selerie.) This is unquestionably the largest and best Celeriac in existence. The roots are very large, twice as large as the Erfurt, almost globe shaped, smooth, with only a few roots at the bottom. Flavor is excellent. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

## EGGPLANT (Ger. Eierpflanze).

One ounce will produce about 1000 plants.

**Culture.** Eggplant seed will not vegetate freely without a strong, uniform heat, and if the plants get the least chilled in the earlier stages of growth they seldom recover. Therefore, repeated sowings are sometimes necessary.

**New York Improved Purple.** The leading market variety; of large size, skin deep purple, smooth, free of thorns; flesh white, of excellent quality; very productive. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 85c.

**Black Beauty.** The earliest large variety; color rich, dark purple. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 85c.

### EGGPLANT PLANTS.

**Eggplant.** Plants ready in May and June. Pot-grown, 50c. dozen, \$4.00 per 100. Drawn plants, 25c.; doz., \$1.25 per 100.



Black Beauty Eggplant.

## ENDIVE (Ger. Endivie).

**Culture.** Sow in June, July and August; cover lightly; when up, thin out to eight inches apart, and water well afterward, if dry. When the leaves are 6 or 8 inches long, blanch by gathering in the hand and tying together near the top with yarn or bast. This must be done when quite dry, or they will rot. At the approach of Winter, take up carefully, with a ball of earth to each

plant, and place close together in frame or cellar for use. They must be kept dry and have plenty of air.

**Green Curled.** Tender and crisp. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.00.

**White Curled.** Self-blanching. Very tender when young; blanches readily. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.00.

**Broad Leaved Ectavian (Escarole).** This variety is chiefly used in soups and stews; it requires to be tied up for blanching. Pkt., 5c. and 10c.; 1 oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

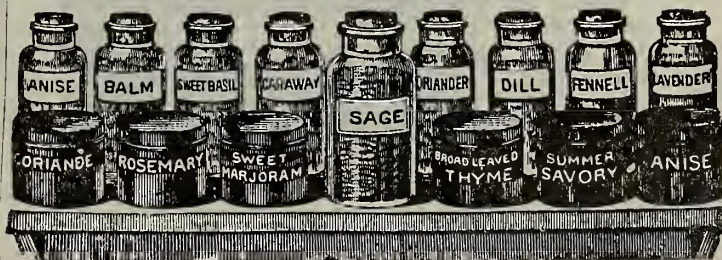
## HERBS (Ger. Kraeuter).

**Culture.** Herbs delight in a rich, mellow soil. Sow seeds early in Spring in shallow drills, one foot apart; when up a few inches thin out to proper distances, or transplant. They should be cut on a dry day just before they come into full blossom, tied in bunches and hung up or spread thinly where they can dry quickly.

**Borage.** Pkt., 5c. and 10c.; oz., 15c.

**Carroway.** Seeds used to flavor bread. Pkt., 5c. and 10c.; oz., 15c.

**Coriander.** Pkt., 5c. and 10c.; oz., 15c.



(Herbs continued on next page.)

Mrs. Catharine Driver, Landsdowne, Md., tells us that she never had such fine Cabbage as she grew from our Succession and Copenhagen Market Cabbage Seed in her long experience of trucking. She also says: I pulled 250 bunches of Long Orange Carrots on July 5th, from a ¼ pound of your seed planted April 1st.



**HERBS—Continued.**

**Dill.** The seeds are used as a condiment and for pickling. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 15c.; lb., 50c.  
**Fennel.** Pkt., 5c. and 10c.; oz., 15c.  
**Horseround.** For medicinal purposes and flavoring. Pkt., 5c. and 10c.;  $\frac{1}{2}$  oz., 25c.  
**Lavender.** For flavoring and perfumery. Pkt., 5c. and 10c.; oz., 25c.  
**Mint.** This variety is the true spearmint used for making mint sauce and juleps, also in many other ways. The plants are hardy and when once established remain for years. Seeds, 25c. per pkt. Plants, 10c. each; doz., \$1.00; \$6.00 per 100.  
**Pot Marigold.** Pkt., 5c. and 10c.;  $\frac{1}{2}$  oz., 20c.  
**Rosemary.** Leaves are used for seasoning. Pkt., 5c. and 10c.; oz., 30c.  
**Rue.** Pkt., 5c. and 10c.; oz., 20c.  
**Sage.** For seasoning and dressing. Pkt., 5c. and 10c.; oz., 20c.  
**Summer Savory (Bohnen Kraut).** Used for flavoring. Pkt., 5c. and 10c.; oz., 15c.  
**Sweet Basil.** For flavoring soups. Pkt., 5c. and 10c.; oz., 20c.  
**Sweet Marjoram.** Leaves and ends of shoots used for seasoning. Pkt., 5c. and 10c.; oz., 20c.  
**Saffron.** For medicinal and coloring purposes. Pkt., 5c. and 10c.;  $\frac{1}{2}$  oz., 15c.  
**Tarragon.** This does not produce seed, but we offer choice plants. These are hardy if given plenty of protection in Winter. Do not plant them in an exposed place. Extra large plants, 25c. each (by mail, 30c.); per doz., \$2.50.  
**Thyme (Broad Leaf).** For seasoning, also for making tea for nervous headache. Pkt., 5c. and 10c.; oz., 25c.  
**Woodruff (Ger. Waldmeister).** A sweet scented herb which is used as essence in the German Maitrank. Pkt., 15c.  
**Wormwood.** Pkt., 5c. and 10c.; oz., 20c.

**HORSE RADISH ROOTS (Ger. Meer-Rettig).**

Ready April 1st. Extra strong roots will produce large size radish the first season.

**Regular Variety.** Doz., 15c.; 100, 50c.; 1000, \$4.00.  
**Maliner Kren.** A large quick-growing variety, which is now the very best horse radish grown. Doz., 25c.; 100, 75c.

**KALE (Ger. Krauskohl).**

One ounce sows a drill of about 100 feet. 2 to 3 lbs. to the acre.

**Culture.** Sow from May to June, and cultivate same as Cabbage. For early Spring use, sow in September, and protect during Winter. The Kales are more hearty than Cabbage, and make excellent greens for Spring and Winter use, and are improved by frost.



**Emerald Isle Kale.** The finest Kale in the world.

**Emerald Isle Kale.** This is really the handsomest Kale that has ever come under our notice, and is entirely distinct from other strains. The closely curled, handsome leaves are most attractive. A fine exhibition plant of medium height. Very hardy. Pkt., 5c. and 10c.; oz., 15c.;  $\frac{1}{4}$  lb., 25c.; lb., 75c.

**Dwarf German Kale.** Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 15c.; lb., 30c.  
**Tall Scotch.** Best for Summer. Very spreading, nicely curled and hardy; frost improves it. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 20c.; lb., 50c.

**New Imperial Long Standing.** The leaves are very crimp and of a dark green color. It stands quite tall and is an excellent producer. It is just as hardy as any of the other sorts, and will be found very profitable where quantity as well as quality is desired. Pkt., 5c.; oz., 15c.;  $\frac{1}{4}$  lb., 15c.; lb., 35c.

**Mossback Kale.** Very curly, light in color, not very hardy. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 25c.; lb., 75c.

**Dwarf Green Curled Scotch, or Norfolk.** One of the most popular shipping sorts; very largely used in the Norfolk trucking district. The leaves are of a bright green color, beautifully curled. Should be sown in rows in August and September. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 20c.; lb., 50c.

**Borecole, Hardy Winter.** This variety is grown and treated like cabbage. The plant attains a height of 18 inches, with an abundance of beautiful light green leaves which are densely curled and crimped. Besides being very hardy it possesses the advantage of all other varieties in forcing a second crop of moss-curved leaves as soon as the first ones are cut. This new growth is of the finest quality, and is ready for market during the Winter and early Spring months, when it demands fancy prices. Pkt., 5c. and 10c.; oz., 15c.;  $\frac{1}{4}$  lb., 40c.; lb., \$1.25.

**KOHL-RABI (Ger. Kohlrabi).**

One ounce will sow 150 feet of drill.

This is a favorite vegetable in Europe, where it is extensively grown for table use. The bulb is formed above ground, and, if used when young and tender, makes a most delicate dish for the table.

**Earliest White Vienna.** Greenish white outside, with clear white flesh within. Smooth, short leaf; good for forcing; fine quality. Pkt., 5c. and 10c.; oz., 15c.;  $\frac{1}{4}$  lb., 40c.; lb., \$1.25.

**Earliest Purple Vienna.** Same in every respect as the Earliest White Vienna, except in the outside color. Pkt., 5c. and 10c.; oz., 20c.;  $\frac{1}{4}$  lb., 50c.; lb., \$1.50.

**LETTUCE (Ger. Salat).**

Two ounces of seed to 100 yards of row; one ounce for 2000 plants.

**Culture.** Lettuce is now sown during most all seasons of the year. For outdoor use the seed can be sown in well-manured hotbeds in February and March. Transplant there or outdoors when the weather will permit, in rows about 12 inches apart, 10 inches apart in the row. If the salad is not to head, sow thickly and cut as desired. For best results it is well to sow only the varieties best suited to the different seasons and conditions. For Winter use sow the seed in September in hotbeds and follow it with other sowings for succession.

**Best of All.** A great drought and heat resister; forms large compact heads of light green leaves and yellow heart. Pkt., 5c. and 10c.; oz., 20c.;  $\frac{1}{4}$  lb., 40c.; 1 lb., \$1.50.

**Black Seeded Simpson Lettuce.** Fine, large, loose heads, early, finely fringed and curled; very popular for family garden and forcing. Pkt., 5c. and 10c.;  $\frac{1}{4}$  lb., 30c.; 1 lb., \$1.00.

**M. & S. All-Right.** For early Spring and Fall sowing. Produces beautiful light green heads, often 12 inches in diameter, very solid and with a rich buttery heart of light yellow. Pkt., 5c. and 10c.; oz., 15c.;  $\frac{1}{4}$  lb., 35c.; 1 lb., \$1.25.

**Grand Rapids.** Excellent for forcing, fine quality, large, loose, yellowish-green head, stands well. Pkt., 5c. and 10c.; oz., 15c.;  $\frac{1}{4}$  lb., 30c.; lb., \$1.00.



**M. & S. Belvedere Lettuce.**

**Romain White Paris Cos.** Has long, narrow, upright leaves; does not head, but when tied up blanches very nicely. Pkt., 5c. and 10c.; oz., 15c.;  $\frac{1}{4}$  lb., 30c.; lb., \$1.00.

(Lettuce continued on next page.)



**LETTUCE—Continued.**

**California Cream Butter.** A good Summer sort, of reliable heading quality. Yellowish-green, slightly marked with brown specks. This is a variety growing in favor. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 30c.; lb., 90c.

**Improved Hanson.** Large, compact, reliable header; outside leaves curled. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 30c.; lb., 90c.

**Big Boston.** Resembles Boston Market, but nearly twice as large, desirable for forcing and Spring and Fall outdoor planting. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.

**Boston Market, or White-Seeded Tennisball.** Early and compact, quite desirable, good forcer. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

**Oak Leaf.** Quite popular. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 30c.; lb., 90c.

**Big Head.** A big, compact head. Has no core, but a tender, golden heart. Unexcelled for shipping; it resists the cold, and withstands the Summer heat. Crisp, mild flavor. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.

**Improved White Leaf.** Large, compact heads. Light-green color; tender and crisp. The best Winter lettuce to plant. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.

**Defiance.** Leaves green, heads large, solid; one of the best large-growing cabbage lettuces. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.

**M. & S. Strain All-Season.** A cabbage lettuce of sterling merit, making larger and more closely folded heads than any other known variety. The outer leaves are a bright, soft green, the inner ones rich golden yellow. The solid heads measure from eight to ten inches across. Black seed. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

**May King.** This valuable new lettuce from Germany is, without any question, one of the best lettuces on the list for early Spring planting in the open ground. The heads are six to seven inches in diameter, of a clear light green, the outer leaves being slightly tinged with brown, the inner being clear, bright yellowish, with very rich, oily flavor. It is an excellent market sort, the round, compact heads being so solid that they carry extremely well. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

**Unrivalled.** This grand new lettuce can be sown most any time, slow in running to seed; has beautiful green outside leaves and white heart and is tender and crisp. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

**MUSKMELON, OR CANTALOUPE**  
(Ger. Melone).

One ounce will plant about 50 hills; two to three pounds in hills to acre.

**Culture.** Thrives best in light, rich soil. Plant early in May, in hills six feet apart. Manure in hill and sow seed freely. After danger from bugs is past thin to three plants per hill. When one foot long, pinching off tips makes vines branching and strong, and fruit will mature earlier. Water freely and feed liquid manure occasionally. For early use, sow in hotbed, on pieces of sod.



**Rocky Ford Cantaloupe**

**M. & S. Delicious Gold-Lined Rock Ford Cantaloupe.** For description, see Special Pink Page.

**Rocky Ford.** We have a very fine stock of this popular cantaloupe. Small, oval, of excellent quality and a good shipper; early; green fleshed. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c.

**Early Netted Gem.** One of the best of small melons, and very popular. Prolific and of excellent quality. Very early. A great favorite. Green fleshed. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c.

**Emerald Gem.** Small, green skin, delicious yellow flesh. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

**Acme, or Baltimore Nutmeg.** A great favorite for retail market and

for shipping. Large, oval, deeply netted, solid and of fine quality. Green fleshed. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c.

**Jenny Lind.** Very early, small, round, netted and of fine quality; green fleshed. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

**Hackensack, or Turk's Cap.** A very fine, large sort; green fleshed. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

**Miller's Cream, or Osage.** Melons are large and round, with light green, netted skin, and thick, sweet, salmon-colored flesh. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

**Knight Cantaloupe.** True Anne Arundel County grown strain. The great favorite of the Baltimore market, of good size, deeply netted, green flesh, and delicious flavor. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

**Banana.** This melon surpasses all others in its delicious fragrance. The flesh (the melon being nearly solid) is of a rich salmon. The quality is first rate when the melon is thoroughly ripe. It grows from 20 to 28 inches in length and is very prolific. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.

**Montreal Market.** The large fruits are nearly round in form, slightly flattened at ends, with very large, broad, heavy ribs. Dark green skin, thickly covered with heavy netting. The flesh is two inches thick, light green, melting, and of delicious flavor. This is the variety which is grown exclusively on the Island of Montreal, and commands such high prices during the Fall months. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

**Imported Varieties for Forcing in Greenhouse.**

**Blenheim Orange.** A favorite variety, scarlet flesh, good flavor. Pkt., 25c.

**Windsor Castle.** Green flesh, oval shape, finely netted, delicious flavor. Pkt., 25c.

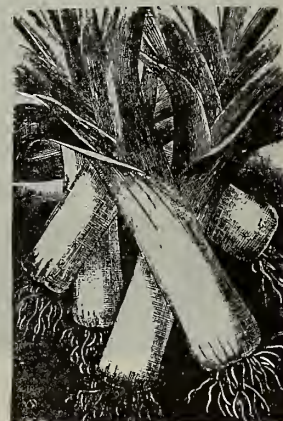
**LEEK (Ger. Lauch).**

One ounce to 150 feet of row.

**Culture.** Sow the seed and care for the young plants same as for Onions, but they need a little more room to develop fully. When the young plants are about the size of a goose quill, transplant into a prepared bed in rows one foot apart and four to five inches in the rows. Set the roots deep and draw the earth to them when cultivating, so that they may be well blanched by the time they are fit for use.

**Giant Carentan.** Produces a large, thick stem, and of mild flavor. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

**American, or Flag.** One of the hardiest and best for Winter use. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.



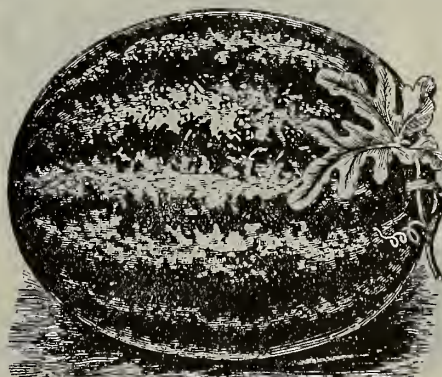
**American, or Flag Leek.**

**WATERMELON (Ger. Wasser Melone).**

One ounce for thirty hills; four to five pounds for an acre.

**Culture.** Watermelons should be planted in hills eight to ten feet apart. Otherwise for culture, see directions for cantaloupes. Do not grow them near pumpkins or gourds.

**Monte Cristo, or Kleckley Sweets.** Where sweetness combined with large size is desired this variety will surely please, as it not only produces melons above the medium size, but has that crisp, sugary flavor so much desired in a watermelon. It is the sweetest of all. Oval shape, skin dark green and somewhat mottled. The rind is thin, but sufficiently tough to stand carrying to near-by markets. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.



**Triumph Watermelon.**

**McIver's Wonderful Sugar.** Resembles Old Rattlesnake, superior in quality. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

(Watermelon continued on next page.)

Mr. Joe Polaski, of Severn, Md., tells us that in his long experience of growing Cucumbers he has never had any Cucumbers as handsome as the ones that he raised from the new Klondike Seed which he purchased from us last season.



**WATERMELON—CONTINUED.**

**Gray Monarch, or Long White Icing.** Very large, long, crimson flesh. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 15c.; lb., 40c.

**Mountain Sweet.** Popular sort; early and sweet. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 15c.; lb., 40c.

**Dark Striped; Kolb's Gem.** The great shipping melon. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 15c.; lb., 35c.

**Tom Watson.** This melon has created quite a furore wherever grown, and we believe is unquestionably the best quality shipping melon in our list. It has a dark green rind, solid red luscious meat, ripening close up to the rind. The rind is very tough, making it an excellent melon for shipping long distances. Its flavor and fine qualities also commend it very strongly for the private grower. It is the most popular melon on our list. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 15c.; lb., 50c.

**Improved Georgia Rattlesnake.** The Old Rattlesnake has always been regarded as a fine melon. Our strain is the result of careful selection by an experienced melon grower through many years of

careful and watchful work. The rind is thin and tough, the flesh deep scarlet, the flavor unsurpassed by any other sort. We strongly recommend it both for shipping and home use. Our improved stock is very much superior to the ordinary Georgia Rattlesnake. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 15c.; lb., 40c.

**Citron.** Grows uniformly round and smooth, striped and marbled with light green. Flesh white and solid; seeds red. It should be borne in mind that this variety is not used for eating in the raw state, but for preserves, pickles, etc. Pkt., 5c.; oz., 10c.; lb., 60c.

**MUSTARD (Ger. Senf).**

**White Mustard.** For salads and culinary purposes. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 15c.; lb., 50c.

**Brown Mustard.** Stronger than above. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 15c.; lb., 50c.

**M. & S. MUSHROOM—SPAWN.**

(Ger. Champignonbrut.)

Have you ever raised Mushrooms or are you trying to and not meeting with success? The Spawn we offer is the best obtainable, and with each purchase of same we give away, when desired, a complete guide on Mushroom culture, which otherwise sells for 35c.

The ever-increasing demand for this delicacy for hotels and the home table has resulted in the establishment of many successful commercial growers.

**Culture.** Mushrooms can be grown in cellars, sheds, hot-beds, and sometimes in the open air. Fermenting horse manure, at a temperature of about 70 degrees and mixed with an equal weight of fresh sod loam, is made into beds the required size, eight inches deep. See to it that the bed is packed solidly and evenly. In this bed plant the broken pieces of Spawn six inches apart, covering the whole with two inches of light soil, and protect from cold and rain. One brick will plant eight or ten feet of bed. The Mushroom will appear in about six weeks. Water sparingly with lukewarm water. Estimate one brick for about eight square feet of bed.

Prices for direct bricks, Pure Culture Spawn (if ordered to be sent by Parcel Post, include postage, according to zone; a brick weighs  $1\frac{1}{4}$  lbs.). 1 brick, 25c.; 5 bricks, \$1.10; 10 bricks, \$2.00; 25 bricks, \$4.25; 50 bricks, \$8.00; 80 bricks,  $\frac{1}{2}$  case, \$12.00; 160 bricks, full case, \$22.40; latter two f. o. b. growing station.



This illustration shows a cluster of fifty Mushrooms on one root, grown from our "Pure Culture Spawn."



Mushroom, or Hot Bed Thermometers. Heavy brass point style. Price, \$1.25.

Book on Growing Mushrooms. Postpaid, 25c.

**OKRA, OR GUMBO (Ger. Safran).**

Four ounces to forty feet of drill.

**Culture.** Sow the seed thickly in rich ground about the middle of May, or when the ground has become warm. In drills three feet apart, one inch deep; thin to 10 inches apart in drills.

Grown for its green pods, which are used in soups, stews, etc., to which they impart a rich flavor, and are considered nutritious.

**White Velvet, or Lady Finger.** Pods round, white, smooth, pods, unlike other varieties, which are ridged or square edge. The pods are of extra large size, and are produced in great abundance. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 15c.; lb., 40c.

**Improved Dwarf Green Prolific.** Of dwarf growth, but immensely productive, and very early. Short, thick, green pods. Home grown seeds of superior quality. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 20c.; lb., 50c.

**Perkins' Mammoth Podded.** A distinct, valuable new okra. Its productiveness is simply wonderful. The pods shoot out from the stalk within three inches of the ground,



Improved Dwarf Green Prolific Okra.

and the whole plant is covered with them to the extreme of its height. The pods are of an intense green color, of unusual length—eight or nine inches—and do not get hard, as is the case with other okras. Very superior for canning. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 20c.; lb., 50c.

**ONION (Ger. Zwiebel).**

**American Grown Seed.** One ounce for 100 feet of drill; six pounds for one acre.

**Culture.** For sets, sow the seeds as early as possible in the Spring, very thickly, in drills. As soon as the tops dry off in Summer, remove them to a dry, airy place, and early in the following Spring re-plant by placing the sets in shallow drills 12 inches apart and about four inches apart in the drills; the Onions by this process obtained are of a large size early in the season. They may also be grown to full size during the first season by sowing thinly in drills one foot apart and about one-quarter inch deep in March or early April, in strong land, well manured, and thinning them out to stand three or four inches apart in the drills.

By sowing Onion Seeds in frames in February or March, and transplanting in April, Onions of immense size can be obtained. Use Prize-taker or Bermuda varieties for this.

**Yellow Globe Danvers.** One of the most extensively used yellow onions. Bulbs of medium size, uniformly globe shaped, with small neck, and ripen very evenly. Flesh white, crisp, and of mild and excellent flavor. We have developed a strain which has the ripening habit and small neck of the original Danvers and yet is more globular, thus giving larger yields and handsomer bulbs without sacrificing any of the good qualities of the original Danvers. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 30c.; lb., \$1.00.

**Extra Early Barletta.** An extremely early maturing variety, very white and particularly desirable for pickling. Bulbs very small and firm. Pkt., 5c. and 10c.; oz., 20c.;  $\frac{1}{4}$  lb., 40c.; lb., \$1.75.

**White Silverskin.** Ripens early; of large size, mild in flavor, and excellent for Winter use; much esteemed for pickling when small. Pkt., 5c. and 10c.; oz., 15c.;  $\frac{1}{4}$  lb., 50c.; lb., \$1.50.

**Large Red Wethersfield.** Grows to full size the first season from (Onion continued on next page.)

I bought a package of your Banana Cantaloupe and must say that I was more than pleased with the results that I received from same. I never had such delicious cantaloupe before.

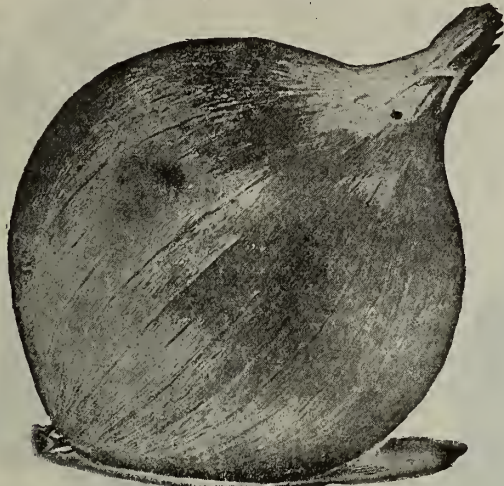
Yours truly,

E. L. PAINTER, Owings Mills, Md.



**ONIONS—Continued.**

seed; almost round, large size, deep red color, and keeps well. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 30c.; lb., \$1.00.

**Prizetaker Onion.**

**Prizetaker.** This is the large, pale yellow onion that is offered for sale in the fruit stores and markets in the Fall. It grows to a very large size; flesh white, of mild and delicate flavor. The large onions are raised first year from seed, and with ordinary culture produce enormous crops. The onions sometimes go over three pounds each in weight where good soil and culture is given them. Our seed is pure and genuine. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 30c.; lb., \$1.00.

**Australian Brown.** The bulbs grow to a good marketable size, and are very hard and solid. They ripen earlier than either Yellow Danvers or Red Wethersfield, are beautiful brown color and mild flavor. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 35c.; lb., \$1.25.

**Chives Seed.** Pkt., 10c.; oz., 75c.

**Bermuda Varieties.** They are of a mild and delicate flavor, and keep longer than any foreign variety. They will produce full-grown onions from seed the same season. In the South seed sown in the Fall will produce fine large onions for market in early Spring.

**Red Bermuda.** Pkt., 10c.; oz., 25c.;  $\frac{1}{4}$  lb., 75c.; lb., \$2.50.

**White Bermuda.** Pkt., 10c.; oz., 25c.;  $\frac{1}{4}$  lb., 75c.; lb., \$2.50.

**ONION SETS.**

One quart will plant a row about 50 feet.

Used for an early crop of onions, and should be planted just as soon as the ground can be worked. Press the bulb in the ground lightly and do not cover; in rows 12 inches apart, 2 inches apart in the row; so that all the development goes in the onion; on signs of their going to seed, bend the top over, but do not break it off. They can be harvested in this locality for Winter storage as early as July 10th. The advantage in planting set lies in the fact that the young onion is ready in five weeks from time of planting, while those grown from seed cannot be used until well in the Autumn. Shipped on local orders about March 1st, unless otherwise requested.

If ordered to be sent by Parcel Post, include postage, according to zone; a quart of Onion Sets weighing about  $\frac{1}{4}$  lbs.

**Yellow Danvers.** Pt., 10c.; qt., 15c.; pk., 75c.; bu. of 32 lbs., \$2.50.

**Large Red Wethersfield.** Pt. 10c.; qt., 15c.; peck, 75c.; bus. of 32 lbs., \$2.50.

**Yellow Danvers.** Pt., 10c.; qt., 15c.; pk., 75c.; bu., of 32 lbs., \$2.50.

Multiplier Onion Sets, yellow and white, are furnished in September and October. Market price.

Price on Onion Sets subject to change.

**PARSNIP (Ger. Pastinake).**

One ounce for 200 feet of drill; five to six pounds for an acre.

**Culture.** Sow as early in the Spring as the weather will admit, in drills 15 inches apart and one-half inch deep, in a rich, deep soil; thin out to six inches apart in the rows. The quality of the roots is improved by leaving them in the ground over Winter for Spring use.

**Improved Hollow Crown.** The best variety. A great cropper, roots long, very smooth, white, tender, sugary, and of excellent flavor. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 15c.; lb., 40c.; 5 lbs., \$1.75.

**PARSLEY (Ger. Petersilie).**

One ounce to 150 feet of drill.

**Culture.** Parsley requires rich, mellow soil. The seed is even slower than Parsnip in germinating, and should be sown as early as possible in the Spring, in drills one foot apart, and when the plants are well up thin to one foot in the row. When the plants are about

**Champion Moss Curled Parsley.**

three inches high cut off the leaves, the plant will start a new growth.

**Champion Moss Curled.** A distinct variety of unequalled merit, beautifully crimped and curled. It can be cut the year round, as it rarely runs to seed. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 20c.; lb., 75c.

**Green Mountain Parsley.** Beautifully crimped and curled; perfectly hardy and vigorous grower. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 20c.; lb., 75c.

**Plain, or Single.** Very strong in flavor, but not curled. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 30c.

**Hamburg, or Rooted.** Edible roots. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 30c.

**PEPPER (Ger. Pfeffer).**

One ounce will produce 1000 plants.

**Culture.** Sow in hotbeds in March or April, or on a warm, sheltered border in May, and when the season is favorable transplant in rows two feet apart and 18 inches in row, in good, rich ground.

**Mammoth Ruby King.** Good for Mangoes or pickling, very sweet. Large, quite productive. Pkt., 5c. and 10c.; oz., 20c.;  $\frac{1}{4}$  lb., 60c.; lb., \$2.00.

**Large Bell, or Bull Nose.** Large early variety; hot flavor, thick and fleshy. Pkt., 5c. and 10c.; oz., 20c.;  $\frac{1}{4}$  lb., 50c.; lb., \$1.75.

**Chinese Giant.** This is a real monster pepper, perfectly sweet, the fruit is green turning to bright scarlet, matures very late, a very shy seeder. Fine for stuffed mangoes. Pkt., 10c.; oz., 35c.;  $\frac{1}{4}$  lb., \$1.00; lb., \$3.00.

**Mammoth Ruby King Pepper.**

**Large Sweet Spanish.** A variety rivaling with Chinese Giant, is, however, not as large. Color and shape very similar, also late in maturing; for mangoes or pepper hash this is an ideal sort. Pkt., 5c. and 10c.; oz., 20c.;  $\frac{1}{4}$  lb., 50c.; lb., \$1.75.

**Neapolitan.** This variety is an excellent one, grows a long shape and somewhat narrow; it stands upright on the bushes. The fruit is sweet and bright red; a very early sort. Pkt., 10c.; oz., 20c.;  $\frac{1}{4}$  lb., 60c.; lb., \$2.00.

**Long Red Cayenne.** Long, slim, and very pungent. Pkt., 5c. and 10c.; oz., 20c.;  $\frac{1}{4}$  lb., 50c.; lb., \$1.75.

**Small Chili.** Small, red, conical pods. Very hot and prolific. Pkt., 5c. and 10c.; oz., 25c.;  $\frac{1}{4}$  lb., 75c.

**Pepper Plants.** Ready in May and June. Doz., 15c., 100, 60c.

Gentlemen: I think it may be of some interest to you to know that I have had wonderful results with your pure culture Mushroom Spawn. Most respectfully,  
MRS. J. J. GEORGE, Long Green, Md.



## GARDEN PEAS (Ger. Erbsen).

Sow one quart of seed to 100 feet of row; one and one-half to two bushels to the acre in drills.

**Culture.** Peas succeed best in light, dry, loamy soil. Early and dwarf sorts require richer soil than the late varieties. If manure is used, let it be old and well rotted, or there will be a rank growth of vines with few pods. Sow the early, smooth, round sorts as early in the Spring as the ground can be worked. Seeds of wrinkled varieties are more liable to rot if the ground is cold, and must be planted later. Sow in single rows, dwarf sorts three feet apart and tall sorts four feet, or in double drills, six to eight inches apart, one inch apart in the drill, and not less than four inches deep, for late sorts five to six inches deep. Deep planting prevents mildew.

Packets of all varieties of Peas, 5c. and 10c.

If wanted by Parcel Post, include postage, according to zone.

Weight, 1 pt., 1 lb.; 1 qt., 2 lbs.; pk., 15 lbs.

Prices on all Pea Seeds are subject to market changes.

### SECOND EARLY VARIETIES.

**Gradus, or Prosperity.** One of the most popular wrinkled sorts. Even though it matures a short time later than the extra earlys, the pods, fully as long as those of the well-known Telephone, contain very large peas that are unexcelled for sweetness. Superior variety for market or garden. Pt., 15c.; qt., 30c.; pk., \$1.75; bu., \$6.50.

**Nott's Excelsior.** One of the best dwarf early wrinkled peas. It grows about 14 inches high, very productive, and the pods three inches long, generally contain six or seven large, sweet peas of the finest quality. Well recommended for home use. Pt., 15c.; qt., 30c.; pk., \$1.75; bu., \$6.50.

**Premium Gem.** The round pods, two and one-half inches long, are borne on short bushes, which are well suited to small gardens. Pt., 15c.; qt., 25c.; pk., \$1.75; bu., \$6.00.

**American Wonder.** Dwarfier and a trifle earlier than the preceding, but not quite so productive. The peas are sweet, tender and of delicious flavor. Pt., 15c.; qt., 30c.; pk., \$2.00.

**Thomas Laxton.** An exceptionally fine variety, growing three feet in height and yielding large podded peas, four to five inches in length, of the finest flavor. Pt., 15c.; qt., 30c.; pk., \$1.75; bu., \$6.50.

**Daisy, or Dwarf Telephone.** The striking features of the Daisy Pea are its large pods and the way in which they are heaped up in ridges on the short, strong vines. The pods are nearly double the size of American Wonder or Premium Gem, and are always well filled with large peas of most excellent quality. The vines are 16 to 18 inches high, and, being strong and thrifty, require no support, making it an ideal variety for use where brush or stakes are not available. This pea is desirable on account of the fine appearance of the pods, and always finds a ready sale. Pt., 15c.; qt., 25c.; pk., \$1.50; bu., \$6.00.

**Dwarf Prolific Green Marrow.** Very similar to the above. Price the same as Daisy.

**Bliss' Everlasting, or Abundance.** Vine stout, about two and one-half feet high, bearing at the top six to ten broad pods. If these are picked as they mature and the season and soil are favorable, the plant will throw out branches bearing pods which will mature in succession, thus prolonging the season. The peas are large and wrinkled, cook very quickly, are tender, of superior flavor and preferred by many to any other sort. Pt., 15c.; qt., 25c.; pk., \$1.50; bu., \$5.50.

### MEDIUM AND LATE VARIETIES.

**Telephone.** For general planting this tall-growing variety is undoubtedly the most popular among market gardeners. The pods, four to four and one-half inches long, are light green in color and filled with large, sweet, tender peas. Pt., 15c.; qt., 25c.; pk., \$1.50; bu., \$5.50.

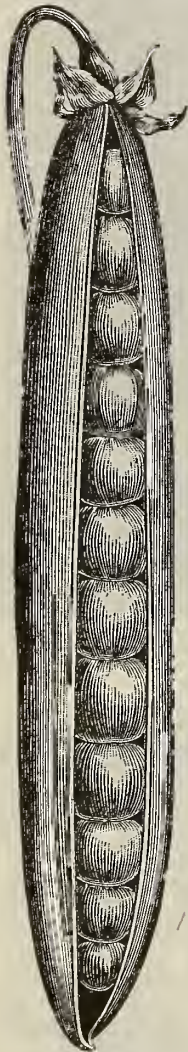
**Champion of England.** A standard pea; vines grow four and one-half feet high and bear medium-sized pods of peas of good quality. Pt., 15c.; qt., 25c.; pk., \$1.50; bu., \$5.50.

**Improved Sugar Marrow Peas.** We have the genuine stock of this variety. This pea is the kind planted principally by the larger growers around Baltimore for late crop. It is a strong grower and produces an abundance of large, well-filled pods. Pt., 10c.; qt., 20c.; pk., \$1.25; bu., \$4.00.

**French Canner.** Largely grown for canning. It is very productive, the pods are long, slightly curved and well filled; quality is good; late. Pt., 10c.; qt., 20c.; pk., \$1.15; bu., \$3.75.

**Tall Melting Sugar.** The pods as well as the peas of this variety are edible and both very sweet. Pt., 20c.; qt., 35c.

Use **FARMOGERM** on Garden Peas and watch results. Price, 25c.; 50c. per bottle. Acre size, \$2.00.



Gradus Pea.

## EXTRA EARLY VARIETIES.

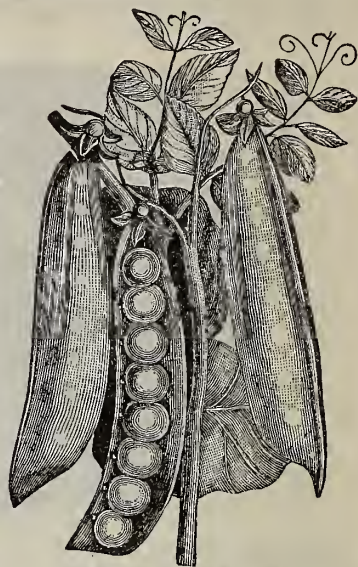
**Pedigree First and Best.** An excellent strain of first early peas; very popular and largely planted throughout the trucking sections. Height two to two and one-half feet. Pt., 15c.; qt., 25c.; pk., \$1.25; bu., \$4.75.

**Prolific Early Market.** This is one of the largest podded and most productive of all smooth-seeded extra early peas. Vines grow about 30 inches in height, and can all be gathered in two pickings. The pods are remarkably well filled, and the peas sweet and fine flavored. A most satisfactory prolific early sort, both for the market gardener and the home gardener. Pt., 15c.; qt., 25c.; pk., \$1.25; bu., \$4.75.

**Extra Early Alaska.** Popular among market gardeners for an early crop. The pods are medium size, dark green in color and ripen almost at one time. Pt., 15c.; qt., 25c.; pk., \$1.25; bu., \$4.75.

**Long Podded Alaska.** Vines of this variety grow about three feet high and are heavy bearers. The pods, three inches long, mature shortly after Alaska and are well filled with sweet, tender peas. Pt., 15c.; qt., 25c.; pk., \$1.35; bu., \$5.00.

**M. & S. Little Marvel.** For description, see Special Pink page. Prices: Pt., 15c.; qt., 25c.; pk., \$1.75; bu., \$7.00.



Prolific Early Market Peas.

Six first-class Peas which will mature according to rotation:  
E. E. Alaska. Prolific Early Market. "M. & S." Little Marvel.  
Gradus, or Prosperity. Daisy, or Dwarf Telephone.  
Telephone.

## PUMPKIN (Ger. Kurbiss).

One ounce of seed will plant fifteen hills; three to four pounds plants an acre.

**Culture.** Pumpkins are not so particular in regard to soil as melons or cucumbers, but in other respects are cultivated in a similar manner. Sow in the month of May. Make hills the same as you do for squashes, but do not make the hills too close. You will find that eight to ten feet apart each way is much better than closer planting. It is preferable to grow large quantities of Pumpkins as a special field crop, and not in the kitchen-garden, as they always mix so badly with squashes and other vines. The few you do need to grow in the home-garden you should put in your most remote corner. You will, of course, sow some amongst your corn, putting in a few seeds, say every third or fourth hill, after the last working; this will give you plenty for the table and your stock the coming Winter.

**Cushaw, or Winter Crookneck.** An old standard variety, which is very popular. It is also used for feeding stock. Long yellow crook-neck, fine grained yellow flesh, very solid. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; 1 lb., 60c.

**White Cushaw.** Same as above, only has white skin. Price same as above.

**Japanese Pie.** Flesh very thick, rich salmon color, fine grain, dry and sweet. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.

**Tennessee Sweet Potato.** Excellent for pies; pear-shaped, medium



King of Mammoths, or Pot Iron.

Capt. J. M. Moore, Revenue Cutter Service, Arundel Cove, Md., tells us that he was highly pleased with results he obtained from flower and vegetable seeds purchased from us.



**PUMPKIN—Continued.**

size, flesh and skin creamy white, fine grained, sweet, a first-rate keeper. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 25c.; lb., 75c.

**Cheese.** Shape flat like a cheese box; good keeper, popular. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 15c.; lb., 40c.

**King of the Mammoths, or Pot Iron.** An immense variety, which

always wins prize offered for the largest and best pumpkins grown to weigh over 200 pounds. Flesh of a rich, golden yellow; a splendid keeper. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 20c.; lb., 60c.

**Ky. Field Pumpkin.** Large, flat, fine for pies or stock. Pkg., 5c.;  $\frac{1}{4}$  lb., 10c.; lb., 30c.

**Common Yellow, or Connecticut Field.** Very productive; for feeding stock. Pkt., 5c.;  $\frac{1}{4}$  lb., 10c.; lb., 30c.

**POTATOES (Ger. Kartoffeln).**

Ten bushels cut tubers will plant one acre.

**Culture.** Planting may commence as early in the Spring as the ground can be worked. Place one piece every twelve inches in rows two and one-half feet apart, covering about four inches. When cutting the seed care should be taken that at least one good eye, or two small ones, is allowed to each piece. Sandy loam produces the best potatoes.

**Time of Shipment.** Potato shipping with us commences about March 15th (weather permitting), unless otherwise requested. We can ship them at customer's risk any time during cold weather.

Our potatoes are put up in barrel sacks of 165 lbs. each.

Prices on quantity of Potatoes furnished on Potatoe prices subject to market fluctuation. application.

**Red Bliss.** Very early, thin red skin, round, white flesh. Pk., 50c.; bn., \$1.50; bbl. sack, \$3.50.

**White Bliss, or Pride of the South.** Productive and extra early. White skin and flesh. Round. Pk., 50c.; bn., \$1.50; bbl. sack, \$3.50.

**Irish Cobbler.** This is an early potato of exceptional merit, which has given our trade entire satisfaction. The shape is round. Flesh is white and the eyes strong and deeply set. Considering its earliness, productiveness and excellent quality, we do not hesitate to recommend this as one of the best early varieties. Pk., 50c.; bn., \$1.50; bbl. sack, \$3.50.

**Houlton Early Rose.** The Houlton strain of the old favorite Early Rose has been the most popular on our market in recent years. It is preferred because it is a little earlier than the old Early Rose. A description of this variety is needless, as almost everyone knows of its excellence in quality and as a cropper. Pk., 50c.; bn., \$1.50; bbl. sack, \$3.25.

**Bovee.** This variety is of recent introduction, and its general good qualities have attracted much attention. More productive and earlier than the Early Rose. Pink, or flesh-color, smooth, uniform marketable size; dwarf stock vine permits close planting. Pk., 50c.; bn., \$1.50; bbl. sack, \$3.50.

**Crown Jewel.** A well-known and deservedly popular early variety. Very productive and an excellent cooker. Skin white and smooth, eyes shallow, but strong. Pk., 50c.; bn., \$1.50; bbl. sack, \$3.25.

**Beauty of Hebron.** It is a very rapid and vigorous grower, ripening fully as early as the Early Rose, which it resembles, but frequently exceeds in productiveness and excellence for table use. A very good keeper. Pk., 50c.; bn., \$1.50; bbl. sack, \$3.25.

**M. & S. Fill Basket.** For description, see Special Pink Page. Prices: Pk., 60c.; bn., \$2.00; bbl. sack, \$4.00.

**PEANUTS (Ger. Erdnuesse).**

For medium light, loamy or sandy land. Peanuts are one of the most profitable crops that can be grown. They yield very largely—yields of 50 bushels per acre being reported on land too poor to plant in corn. In addition to the yield of nuts, they yield quite largely of nutritious forage, and will yield ordinarily about a ton of excellent dry forage per acre, in addition to the crop of nuts.

**Culture.** Peanuts should be shelled before planting. They should be planted in May or early June, in rows about two and one-half to three feet apart, dropping the nuts eight to ten inches apart, one in a hill. Cover one or two inches deep. Cultivate three or four times with a cultivator, so as to loosen the earth and keep down weeds, and at the last working, with a small turn-plow throw the dirt to the nuts. Do not cultivate too late in the season, as late cultivation is likely to injure the formation of the nuts. It is also advisable to make an application of lime, scattering it on top of the row just after planting, and to use a top-dressing of land plaster just after the last working. Peanuts require plenty of lime to make first-class nuts, and the use of lime and plaster as above mentioned is recommended by the most successful growers.

In harvesting, plow the Peanuts and then stack against stakes stuck into the ground, the roots with the Peanuts on them to the centre, and the leaves outside.

The Peanuts we offer are selected from the best and most productive crops grown in Virginia. Peanuts are one of the most profitable and



**Improved Green Mountain Potatoes.**

**Early Ohio.** This is a very profitable variety. It is fit for use before fully ripe. It is shorter and rounder than the Early Rose, of good quality and very early. Pk., 50c.; bn., \$1.50; bbl. sack, \$3.25.

**Burbank.** We have very fine stock of this old reliable late potato. The Burbank is of excellent quality, yields well and is a splendid keeper. Pk., 50c.; bn., \$1.50; bbl. sack, \$3.25.

**Improved Green Mountain.** For a main crop later potato we consider this variety one of the best. It is very white, has an excellent flavor, and is very productive. Popular with those who have tried it. Pk., 50c.; bn., \$1.50; bbl. sack, \$3.25.

**Early Norther, New Queen, Carmen No. 3, Prosperity.** All choice northern stocks. Prices furnished on application.

**Choice Seed Sweet Potatoes, Leading Varieties.** Prices on application.

**Sweet Potato Plants.** Ready in May and June. 30c., 100; 1000, prices furnished on application.

You furnished our institution with six bushels Improved Green Mountain Potatoes and in spite of the long drought, I harvested 30 bushels of nice, large tubers. Yours truly, E. DEIBE  
L. Farm Manager, St. Vincent Male Orphan Asylum, Towson, Md.

satisfactory crops that are grown in the South, and we recommend to all our customers, even if they do not plant for market, to plant at least a small patch of Peanuts for home use.

**M. & S. Improved Jumbo Peanuts (Shelled).**  $\frac{1}{4}$  lb., 10c.;  $\frac{1}{2}$  lb., 15c.; lb., 25c. Special price on large quantity.

**RADISH (Ger. Radies).**

One ounce for seventy-five feet of drill; nine to ten pounds in drills to one acre.

**Culture.** To be tender and crisp, Radishes must be grown quickly, and this requires rich soil and plenty of moisture. Commencing with the first mild spell in the Spring, sow at intervals of ten days, in a light, rich, deeply-worked soil. May also be sown as a catch crop between rows of beets, lettuce, onions, etc. Radishes can be forced in hotbeds, but must have plenty of ventilation and moisture.

**EXTRA EARLY VARIETIES.**

**White Tipped Scarlet Globe.** A good forcing variety. Small size and very attractive, being a handsome, bright scarlet, with white tip. Very early and good quality. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 15c.; lb., 35c.; 5 lbs., at 30c.

**Ruby King, Extra Early.** Of brilliant red color, fine for forcing or open ground; roots are tender, juicy and mild. The best round red Radish that grows. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 20c.;  $\frac{1}{2}$  lb., 30c.; lb., 50c.

**Scarlet Globe, Early.** This variety can be used for forcing and is recommended for early outdoor planting. It is a small, round, red radish, of excellent flavor. Its rich, crisp, tender flesh makes it very popular. Pkt., 5c.; oz., 10c.;  $\frac{1}{4}$  lb., 15c.; lb., 35c.

(Radish continued on next page.)

Gentlemen: It affords me great pleasure to inform you that from the Colliers' Success Seed Corn you shipped me I raised 11 barrels of corn to the acre on land which had no fertilizer or manure for two years. Yours truly, F. SANDERS, Woodwardville, Md.



## RADISH—Continued.

**Crimson Giant.** An extra early radish, good for forcing or outdoor growth. It is nearly round in shape, remarkably solid, crisp and juicy. It will grow double the size of ordinary red forcing radishes, and still remain hard and solid. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.



White Tipped Scarlet Globe Radish.

**White Turnip (Short Top).** Of quick growth; roots round, pure white, tails very thin; leaves short, flavor excellent. Fine for forcing and open ground. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

**French Breakfast, Early.** Oblong shape, rapid grower, very mild and tender; of a beautiful scarlet color, tipped with white. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

**Early Long Scarlet Short Top.** The principal outdoor quick-growing variety, also very good for forcing. Grown in light, rich soil, its average length is about eight inches; grows half out of the ground, straight, uniform in color, brittle, crisp, small tops, bright scarlet. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 35c.; 5 lbs., at 30c.

**Icele.** A beautiful long, slender radish, of recent introduction. Beautiful pearl-white color, firm and solid, slow to get woody. A good seller. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

**White Strasburg.** Handsome, oblong, tapering shape; both skin and flesh pure white; flesh firm, brittle, tender and possessing the most desirable character of retaining its crispness, even when the roots are old and large. Excellent for Summer use, as it withstands severe heat and grows very quickly. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 35c.; 5 lbs., at 30c.

**New Glass, or Cincinnati Market.** A long Scarlet Radish with a distinctive white tip. A suitable radish for deep mellow soil. A fine radish for the home garden as well as an attractive one for the market stall. Pkg., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 35c.

## Summer Varieties.

**Golden Globe.** A favorite Summer radish. Golden-brown skin, perfect globe shape, mild and brittle, slow to seed. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

**Large White Stuttgart.** Very large, top-shaped, flesh and skin white, fine quality, firm and brittle, seldom pithy. Can be stored for Winter. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

**Large White Summer Turnip.** Round, smooth and very white; crisp and tender. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

## Winter Varieties.

**White Chinese, or New Celestial.** Large stump-rooted, white skin and flesh, mild in flavor, brittle and never woody. For late planting and a splendid keeper. Market gardeners will find this a good variety that sells readily. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

**Long Black Spanish.** Large radish, with black skin and white firm flesh, grows six to eight inches long. Pkt., 5c.; oz., 10c.; ½ lb., 15c.; lb., 40c.

**Round Black Spanish.** Like the above except that it is round shape. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

**Long White Spanish.** Like the Long Black Spanish, only different in color. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

**China Rose, or Scarlet China.** Bright rose-colored, stump-rooted, of excellent quality. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 35c.

**Sakurajima (Mammoth Japan).** The largest sort in cultivation. Sow early in rich soil. In Japan it grows as much as twenty-one inches long and forty-three inches in circumference. Thin well to allow of proper development. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

## RHUBARB (Ger. Rhabarber).

**Culture.** Sow seed in a cold-frame, in a fine, rich, sandy loam, about the first of March, in drills four inches apart. Keep the frames covered during nights and cold days, so that the soil will not freeze, and in six or eight weeks the plants will be large enough to set in the open ground. Transplant to a rich soil, and set in rows twelve inches apart and twelve inches in the row. The following Spring transplant to a permanent location, setting four or five feet apart each way. In good soil Rhubarb is ready to use the second year from seed. When roots are set out, plant them four or five feet apart each way, and keep the weeds down. If roots are used, a crop may be had after one season, which is much better than sowing seed where only a few plants for family use are needed. In the Fall the bed should have a thick dressing of coarse manure, to be spaded under in Spring.

**Victoria.** The leading variety. Pkts., 5c. and 10c.; oz., 20c.; ¼ lb., 50c.

**Roots.** Extra large and two-year-old. Each, 15c.; doz., \$1.00; 100, \$7.50.



## SPINACH (Ger. Spinat).

One ounce will sow fifty feet of drill; fifteen to twenty pounds to an acre.



Victoria Spinach.

tively smooth. Oz., 5c.; ¼ lb., 10c.; lb., 25c.; 5 lbs., 75c.; 100 lbs., \$10.

**Long Season.** Leaves are decidedly dark green in color, very broad, thick and fleshy. It resists the Summer heat remarkably well, in fact better than all others, and remains a long time in condition for use before going to seed. Pkt., 5c.; ¼ lb., 10c.; lb., 25c.; 5 lbs., \$1.00.

**Old Time Long Standing.** Succeeds well at almost all seasons, and, though rather slow growing, it is a very fine, large, dark green pointed leaved spinach. Oz., 5c.; ¼ lb., 10c.; lb., 25c.; 5 lbs., 75c.

**New Zealand.** Distinct from the ordinary Spinach in appearance. The plants are more spreading in growth with small, very dark green leaves, which may be had throughout the hot Summer months. Sow seed outdoors during May, dropping about three seeds in hills two feet apart each way. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

**Culture.** Sow in early spring, in drills a foot apart, every two weeks for a succession, and, as it grows, thin out for use. For Fall use, sow in August, and for winter crop in September. Cover that which is left out over winter with straw or leaves after the weather becomes quite cold. Keep clear of weeds. Sow the seeds of New Zealand in hills two feet apart each way, three or four seeds in a hill.

**Bloomsdale Savoy Leaved.** The popular Fall spinach so largely grown for market. Grows upright, the leaves being crumpled, dark green and very thick. Oz., 5c.; ¼ lb., 10c.; lb., 20c.; 5 lbs., 60c.; 10 lbs., \$1.00; 100 lbs., \$8.00.

**Victoria.** A favorite for early Summer. It is one of the darkest in color, and with exception of the heart, the leaves are comparatively smooth. Oz., 5c.; ¼ lb., 10c.; lb., 25c.; 5 lbs., 75c.; 100 lbs., \$10.

Mr. Fred Ravadge, of Fullerton, Md., a prominent truck grower, tells us that he never before raised such perfect Radishes as he did from our White Chinese or New Celestial Radish Seed which he purchased from us last August.

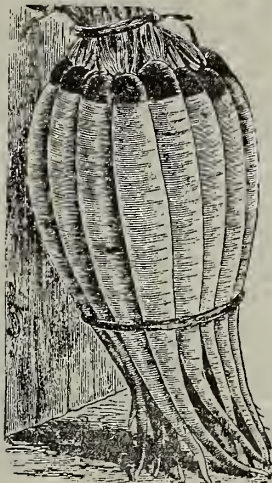


## SALSIFY, OR OYSTER PLANT (Ger. Hafer wurzel).

One ounce to seventy feet of drill; about eight pounds to the acre.

**Culture.** Sow as early as the ground can be worked in the Spring, in drills twelve inches apart, one inch deep, and thin out to six inches in the row. Keep them free from weeds. Cultivate the same as for Carrots and Parsnips. A part of the crop may be left in the ground till Spring, when it will be found fresh and plump. The roots are cut into pieces one-half inch long, boiled until tender, and then served with drawn butter, in which way it is a delicious vegetable. They are also mashed and baked like Parsnips, and have a sweet and agreeable flavor like that of the oyster.

**Mammoth Sandwich Island.** This is an improved type and the largest and most profitable salsify now in cultivation. It is white in color, and a satisfactory sort in every way; invaluable to market-gardeners and truckers. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.



Mammoth Sandwich Island Salsify.

## SQUASH (Ger. Gemuese Kurbiss).

Bush sorts, one ounce for fifty hills; five to six pounds to acre; running varieties three to four pounds in hills for an acre.



Early Mammoth White Bush Squash.

**Culture.** Squashes should be planted in a warm, light, rich soil, after the weather has become settled and warm, about the middle of May or June. Plant in well-manured hills, in the same manner as Cucumbers and Melons—the Bush Varieties three to four feet apart each way, and the running kinds from six to eight feet. Eight to ten seeds should be sown in each hill, thinning out after they have attained their rough leaves and danger from bugs is over, leaving three to four of the strongest plants per hill.

**Early Mammoth White Bush Squash.** An excellent strain. Early prolific and much larger than the old White Bush. Splendid for market and best for

shippers. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

**Summer Crookneck, Bush Variety.** About one foot long, with crooked neck, bright yellow, warty, shell hard when ripe. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 50c.

**Hubbard.** An excellent keeper and of splendid quality. Vine's of strong running growth. Large olive-shaped fruits, with dark-green skin and very rich flesh. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

**Golden Hubbard.** Like the above, but of a beautiful orange-red color, except for a bit of olive-green on blossom end. Flesh deep orange, dry, fine grained and richly flavored. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

**Boston Marrow.** This is a large-fruited, hard-shell sort, highly esteemed for Winter use, having bright orange skin and deep orange flesh. Very fine and extensively used for pumpkin pies. Fine strong running growth. Very productive, oval shape. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

## SORREL, OR SOURGRASS (Ger. Sauerampfer).

**Culture.** Sow in Spring in drills 18 inches apart, in a rich soil, and keep the flower-stems cut off as they appear. It remains in the ground year after year, and only needs to be taken up and divided once in four or five years. To be cut and cooked precisely like Spinach; or it is excellent cooked with it, one-third Sorrel to two-thirds Spinach. It is also used for soups. Very nice to be eaten after it has become cool. Inasmuch as the hot sun tends to increase its acidity, a northern exposure is preferable.

**Large French.** Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

Your Extra Early Mascot Tomato is all and more than you claim. a pound or two.

Yours for success,

## TOMATO (Ger. Liebesapfel).

We Pay Postage on All Tomato Seed.

One ounce for 1500 plants; quarter pound (to transplant) an acre.

**Culture.** This delicious vegetable is one of the most important of all garden products. The seed should be sown in a hotbed about the first week in March, or latter part of February, in drills five inches apart, and half an inch deep. When the plants are about two inches high they should be set out four or five inches apart in another hotbed, or removed into small pots, allowing a single plant to a pot. About the first of May the plants may be set out in the open ground, in bills three or four feet apart, each way. (Sufficient plants for a small garden may be started by sowing a few seeds in a shallow box or flower pot, and placing it in a sunny window of the room or kitchen.) Cultivate thoroughly as long as the vines will permit, but the last two or three workings of the soil should be very shallow (surface cultivation), or the crop may be badly injured, especially if the cultivator is run too near the young plants.

**Extra Early Mascot.** We pronounce this new Tomato the best extra early we have seen. Compared with Earliana it is five days earlier, a heavier cropper, fruits fully as large, but thicker through from stem to blossom end, more solid and of a deeper red color. It ripens close up to the stem. It is quite dwarf with little foliage, but very compact. It is the greatest yielder we have ever seen. We have counted fifteen marketable fruits on a single crown setting. We do not mean to say that half the patch will do this, but we can honestly say that we saw a great many plants with seven, eight and nine fruits on a crown setting. Being a small-vined sort, it requires high cultivation to bring out all its good qualities. Pkt., 5c. and 10c.; oz., 35c.; ¼ lb., \$1.00; lb., \$3.50.



Extra Early I. X. L. Tomato.

**Extra Early I. X. L.** Combines extreme earliness, immense size and prolificness. Fruit red, ripening mostly all at one time. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

**Sparks Earliana.** Particularly desirable for shipping and for earliest market. The fruits are smooth, round, of red color, making desirable and salable fruits. Pkt., 5c. and 10c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

**Chalk's Early Jewel.** The finest of the very early tomatoes. About a week later than the Earliana, but far superior in quality. Fine red color, fine quality, hardy and productive. Excellent flavor. A most profitable variety

for early and main crop. Pkt., 5c. and 10c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

**King of the Earliest.** One of the largest Early Red Tomatoes which well deserves its name. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 60c.; lb., \$2.00.

**Bonnie Best.** A tomato of fine quality. Early, round, smooth, red fruit of excellent flavor. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

**John Baer.** This tomato compares with Bonnie Best, but grows much heavier foliage and larger fruit; is also more productive. While not as early as the Earliest, it will pick some fruit quite early; the bulk of the crop coming five to seven days later. It is a good, all around tomato, the fruit being smooth, ripening clear to the stem and of a good rich red color. Pkt., 10c.; oz., 40c.; ¼ lb., \$1.25; lb., \$4.00.

**June Pink.** For gardeners who have a market for an early purplish-pink fruit (which is produced in clusters). This is the variety to plant. True strain seed. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

**Beauty.** Splendid for early market and shipping. Purplish tinge, excellent quality. A fine variety for home gardens. A good yielder. Pkt., 5c. and 10c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

**Livingstone's Globe.** Glossy rose-color, tinged with purple; very early, smooth and of large size; very productive and a good keeper. A standard variety which retains its popularity, very popular with Southern Growers. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 80c.; lb., \$3.00.

**New Queen.** Large, solid, smooth, handsome, deep red color, a heavy cropper and popular with canners. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

**Maryland Pride.** A fine tomato for main crop. Producing enormous quantities of fine, large, red tomatoes, which carry well, making it a good shipper. Pkt., 5c. and 10c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

**New Stone.** This variety is one of the very best tomatoes grown. For productiveness, shipping and canning qualities it is excelled by none. Bright scarlet, fine flavor, very smooth and round. We recommend it as a thoroughly reliable main crop tomato. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

Your Extra Early Mascot is the finest early tomato I ever had. EMMIT WESLEY, Hanover, Md.

Mr. H. L. Whitman, of Magothy River, A. A. County, Md., tells us that our New Stone and Kelly's Red Tomato Seed produced the finest crop he ever had.

(Tomatoes continued on next page.)

It is the best early Tomato that I ever planted, reserve me at least

J. E. PHELPS, Hanover, Md.



## TOMATOES—Continued.



Kelly's Red.

**Kelly's Red.** This variety has obtained immense popularity in the last few years. It was originated in Anne Arundel County. Its solidity and carrying qualities are remarkable. Its color is a desirable red. Its shape perfectly smooth and thicker from stem to blossom than most varieties, making it very handsome and salable. Nobody finds any fault with this variety, but all speak in the highest terms of its beautiful color, its wonderful yielding qualities, its unequalled firmness, or some other of its good points. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

**Greater Baltimore.** General crop tomato of sterling merits; large, smooth, beautiful red skin fruits, which are produced in great abundance until frost kills the vine. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.00.

**B. B. (Brinton's Best).** A very fine late crop tomato, which is similar to the New Stone. Keeps well after being picked. A vigorous grower and quite popular. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

**Ponderosa.** Remarkably large and of fine quality. Very solid. Pkt., 10c.; oz., 35c.; ¼ lb., \$1.25.

**Dwarf Champion.** Stems short, thick, stiff, almost self-supporting. Fruit large, round, red-tinged purple, borne in showy clusters. A good variety. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 75c.

**Dwarf Aristocrat.** Like Dwarf Champion, but red-fruited. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 75c.

**Golden Queen.** Bright yellow, large and solid. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.

**Yellow Pear and Yellow Plum.** Two small-fruited kinds for preserves. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 75c.

**Red Pear.** Pear-shaped red. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 75c.

**Peach.** Very small, pink fruit, with slight peach bloom on skin. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 75c.

**Tomato Plants (Of all leading, popular varieties).** Ready in April. Dozen., 15c.; 100, 50c.

Special prices on Tomato Seed to Cannerymen and Grangers who buy in large quantities.

## TOBACCO SEED.

**Connecticut and Pennsylvania Seed Leaf.** Pkt., 5c. and 10c.; oz., 25c.  
**Havana Seed Leaf.** Pkt., 5c. and 10c.; oz., 35c.

## TURNIP (Ger. Ruebe).

One ounce for 100 feet; two pounds to the acre.

**Culture.** For early use sow as soon as the ground opens in Spring, drills from 12 to 15 inches apart; thin out to six or nine inches in the rows. For a succession, continue to sow every two weeks until June; for Fall and Winter crop, sow in July and August. The Ruta Bagas are grown for feeding stock, and are also excellent for the table. Take up the roots in November or before severe frosts; cut off the tops within an inch of the crown, store in a cool cellar or pit, or pile up in a conical form, out of doors, in dry ground; cover carefully with long straw and finish by earthing up, covering them with about 12 or 15 inches of earth, leaving a trench around the heap to

carry off the water. Put away in this manner they will be found in good condition in the Spring.

**Red, or Purple Top White Globe.** A variety of decided merit, and the most popular in our markets. Globular-shape, very handsome and of superior quality. Is a heavy producer, early, and of rapid growth and an excellent keeper. Besides being a first-class table turnip, it is also very good for stock. Pkt., 5c.; ¼ lb., 10c.; lb., 30c.

**Extra Early Purple Top Strap Leaved.** The Earliest in cultivation and a splendid turnip. Is very flat, medium size, smooth, with bright-purple top. Leaves are few and short and grow compactly, making very small top. Pkt., 5c.; ¼ lb., 10c.; lb., 35c.

**White Egg.** A quick growing, egg-shaped variety. Very smooth, pure white, grow half out of ground. Has a small top and rough leaves. Flesh is of excellent quality. Pkt., 5c.; ¼ lb., 15c.; lb., 35c.

**Yellow, or Amber Globe.** Excellent for table use or stock. Fine quality, keeps well. Pkt., 5c.; ¼ lb., 10c.; lb., 30c.

**Pomeranian White Globe.** Free growing and rough-leaved. Pure white. Useful for table and stock. Large and productive. Pkt., 5c.; ¼ lb., 10c.; lb., 35c.

**Purple Top Yellow Aberdeen.** Medium size, round, pale-yellow, tender and sugary. Is hardy and productive and keeps well. Closely approaches Ruta Baga in hardness and firmness of texture. This is an old esteemed variety for stock. Pkt., 5c.; ¼ lb., 10c.; lb., 30c.

**Improved Purple Top Ruta Baga, or Swede.** The leading variety of Ruta Baga and is grown principally for stock, although it is very often used for table. Hardy, productive, flesh yellow, solid, sweet, fine grained and of good flavor. Ruta Bagas should be sown about one month earlier than other turnips. Pkt., 5c.; ¼ lb., 10c.; lb., 30c.

**Cow Horn.** A long, white, carrot-shaped turnip, which grows half out of the ground. Mostly used for feeding stock, but makes a fine table sort. Has lately been brought to prominence for green manuring, in connection with rape. Pkt., 5c.; ¼ lb., 10c.; lb., 30c.

**Seven Top.** Grown exclusively for its tops, and when properly prepared and cooked make a fine dish. Withstands our Winter without any protection. Pkt., 5c. and 10c.; ¼ lb., 15c.; lb., 40c.

## FIELD CORN (Ger. Maiz).

Eight quarts to the acre.

**Collier's Success.** The ears are of immense size, 12 to 14 inches long, 8 to 10 inches in circumference, carrying 20 to 24 uniform rows of large yellow kernels, well developed over tip and butt. It is a luxuriant grower, about 12 to 15 feet high. Matures in 100 days. Makes a splendid ensilage corn, making two ears on many stalks. ¼ pk., 25c.; pk., 75c.; bu., \$2.50.

**Yellow Leaming.** We have a very choice strain of this early, drought-resisting variety. It makes a fair-size ear, with deep, well-shaped grains, and will mature in 90 days. ¼ pk., 25c.; pk., 60c.; corn. Ears are well filled out. A heavy yielder. ¼ pk., 20c.; pk., 60c.; bu., \$1.75.

**Golden Beauty.** Large, broad-grained yellow corn. Ears are well filled out. A heavy yielder. ¼ pk., 20c.; pk., 60c.; bu., \$1.75.

**Maryland Yellow Dent.** Large ear; moderate size stalk; withstands drought well. ¼ pk., 20c.; pk., 60c.; bu., \$2.00.

**Hickory King.** A very broad-grained white corn that does well on light ground. A good corn for the South. Very small cob. Generally bears two ears to the stalk and occasionally three. ¼ pk., 20c.; pk., 75c.; bu., \$2.00.

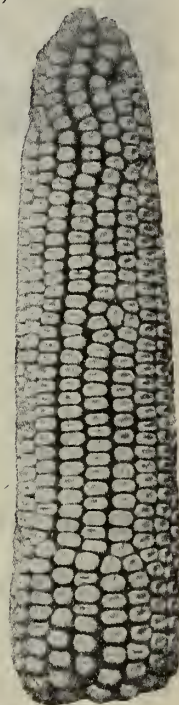
**Boone County White.** Recommended by the Agricultural Experimental Stations. A fine, large, deep-grained variety, originated by one of the best corn breeders. ¼ pk., 20c.; pk., 75c.; bu., \$2.

**Collier's Excelsior.** White corn, especially adapted for hominy corn on account of its flintness. Great producer on poor soil. ¼ pk., 20c.; k., 75c.; bu., \$2.00.

**Red Cob Ensilage Corn.** Pk., 75c.; bu., \$2.00.  
**Virginia Horse-Tooth Ensilage Corn.** Pk., 75c.; bu., \$2.00.



Red, or Purple Top White Globe Turnip.



Boone Co. White Corn.

I raised the largest yellow corn ever grown around the Rappahannock River, from Collier's Success Corn, for which I paid you \$2.50 per bushel. Some ears measured 15½ inches after husking and a great many stalks had two ears on more than half of them.

Yours truly,

J. C. KRETE, Dumsville, Va.



## GRASS SEEDS.

We desire to call special attention to the following list of Agricultural Grasses, which will, we think, be found very comprehensive, both as to varieties and descriptions. We are devoting a great deal of time to this most important subject and this department has already become an extensive one with us. Having learned by experience that the so-called imported grasses which are offered by those making a specialty of them in this country are very far from reliable, both as regards purity and quality, we have found it necessary to import all our seeds of this character direct. We have accordingly made arrangements for our stocks with one of the most prominent growers of Agricultural Grasses on the Continent, who by virtue of many years' experience in growing seeds of this peculiar character, has become the recognized headquarters for same. This will enable us to furnish our customers with the very best, and that which we know to be free from all adulteration.



Kentucky Blue Grass.

**Kentucky Blue Grass.** (*Poa Pratensis*.) One of the most widely distributed and valuable native grasses, combining more points of excellence than any other. It is a true perennial, lasting indefinitely and improving every year. Densely creeping root-stalks, spreading habit, smooth even growth, fine texture and rich-green color render it one of the very best grasses for lawns. It forms a close turf, starts very early in the Spring, and lasts till frost. It succeeds with almost any soil, dry, rocky, sandy or gravelly, and stands the long-continued dry weather and hot suns. It takes, however, two or three years to become well established, and should, therefore, be sown only in connection with other grasses. If the soil is especially suitable

it will eventually crowd these out, and make the finest possible sward. It is one of our most valuable pasture grasses, very productive and nutritious. Lb., 20c.; bu., of 14 lbs., \$2.25.

**Rhode Island Bent.** The distinctive feature of this species is its compact, creeping, rooting stems. It is of rapid growth and spreading habit, and the stoloniferous roots form a strong, enduring turf that is positively improved by constant trampling. Being of fine texture, it is most valuable for lawns and putting greens. Lb., 45c.; 10 lbs., \$3.50.

**Crested Dog's Tail.** (*Cynosurus cristatus*.) A stoloniferous perennial, forming a smooth, compact and lasting turf. It thrives best on rich, moist land, but it can accommodate itself to almost any soil. Its roots penetrate deeply into the ground, which enables it to stand severe droughts. It makes a good bottom grass and is therefore valuable in mixtures for lawns and putting greens. It thrives well in the shade. The color is the same as that of the Kentucky Blue Grass, and it is therefore, excellent in mixture with that sort. Lb., 30c.; 10 lbs., \$2.50.

**Fancy Red Top; Herd's Grass.** (*Agrostis vulgaris*.) A very hardy, native perennial grass, succeeding best on moist land. It accommodates itself to a variety of soils, however, even to quite dry situations, and stands our hot climate admirably. It is, perhaps, the most permanent grass we have, and it enters largely into the composition of our best natural pastures. It remains green for the greater part of the year, and its long, trailing stems form a very close, matting turf that is not affected by trampling. Lb., 35c.; 10 lbs., \$3.00.

**Meadow Fescus.** (*Festuca pratensis*.) This makes a most excellent hay and pasture grass, and is practically valuable for Fall and Winter pasture, as it remains green throughout the Winter. It is also splendid Spring and Summer grass, and usually makes more and thicker leafage than any other grass we have ever grown. It is very popular in Southwest Virginia, East Tennessee and the mountainous district of North Carolina, where it is very highly appreciated as a large-yielding, nutritious pasturage and hay grass. Lb., 25c.; 10 lbs., \$2.00.

**Orchard Grass; Cocksfoot.** (*Dactylis glomerata*.) One of the grasses most employed in permanent meadows, either for pasture or for mowing. It is very hardy and succeeds well anywhere in the United States. It is very productive and makes excellent hay. If cut before it flowers it is less hard and the pith of the stem is soft and sweet. It blossoms about the same time as Red Clover, and is therefore desirable in mixture with that plant. Stock of all kinds are very fond of it, either dry or green, and it endures constant cropping better than any other grass. After being mown, it grows

up quickly and yields a heavier aftermath than any other variety. It can stand considerable shade, and is recommended as a pasture grass for woodlands. Its tendency to grow in tussocks is diminished if it is sown with other grasses, and is also by heavy rolling in the spring. But it is quite unsuitable for lawns. Lb., 20c.; bu. of 14 lbs., \$2.25.

**Pacey's Perennial Rye Grass.** (*Lolium perenne*.) Although called a perennial, it seldom lasts more than three or four years. It is the most valuable grass of Great Britain, both for pasture and for meadows, occupying there the same relative position of importance that Timothy holds here. The cool, moist climate of England seems to suit it best, yet it succeeds very well in our middle and eastern states, and adapts itself to a great diversity of soils. The seed is large and heavy, and produces a strong, verdant growth in four or five weeks after sowing. It cures into hay having a sweet flavor, and much relished by cattle and horses. Its nutritive value, especially in mixture with Red Clover, is very great. It is excellent in mixtures for quick effects in lawns or golf-links. Lb., 10c.; 10 lbs., 75c.

**Timothy.** (*Phleum pratense*.) A native of Europe, but long ago naturalized in America, where it ranks as by far the most important or hay grasses. On moist, loamy or clayey soil it produces a larger hay crop than any other grass. It is not so well suited for light sandy soils. Though preferring a moist, temperate climate, it withstands drought and extreme heat and cold. Its hay is very nourishing and can be preserved for a long time. It should be cut when flowering, if left later the hay becomes hard and coarse. It is often sown along with Red Clover, and the nutritive value of the hay is greatly increased by this mixture. Height, two to three feet. If sown alone, at least one-half bushel to the acre should be used. The seed weighs 45 pounds to the bushel. Several grades are always on the market, differing in purity and vitality. It is always most economical to buy the highest grade known as "Fancy." 10c. per lb.



Timothy.

**Wood Meadow Grass.** (*Poa nemoralis*.) The chief characteristic of this grass is its special fitness for shaded positions in lawns and woodland parks, where other grasses will not grow. It is very permanent and hardy, resisting extremes of heat and cold, and is one of the first grasses to show a rich green growth in the Spring. The creeping roots are formed under ground, and make a good turf and should be included in all putting-green mixtures. It is excellent for pasture. Lb., 40c.; 10 lbs., \$3.50.

**M. & S. Special Grass Mixture for Hay and Pasture.** M. & S. Pasture Mixture is prepared to meet the average need. It is made up of the grasses best calculated to afford an abundant and nutritious food supply for stock. Its formula is based upon successful experience. For all ordinary permanent pasturage it will be found entirely satisfactory. Bushel of 14 lbs., \$2.75.

## CLOVER SEEDS.

(Write for Samples and Prices in larger quantities.)

**White Clover.** (*Trifolium repens*.) Some White Clover is usually included in lawn-grass mixtures. It makes an excellent turf that stands constant trampling. It is of dwarf habit, spreads rapidly and is very hardy. It is valuable in permanent pastures, being sweet and nutritious. Sow in Spring. In mixtures, one or two pounds; if alone, eight or ten pounds to the acre.  $\frac{1}{4}$  lb., 15c.;  $\frac{1}{2}$  lb., 25c.; 1 lb., 50c.

**Alfalfa, or Lucerne.** (*Medicago sativa*.) Requires deep, rich, well-drained soil. Roots very deeply, the tap-root descending often to a depth of 10 or 15 feet in loose soil. It is, consequently, capable of resisting great droughts. It should be sown alone (about same time as oats are sown in this section) in thoroughly prepared, deeply plowed soil, at the rate of 20 to 25 pounds to the acre. It is also successfully sown as late as August and up to the middle of September. The crop should be cut when the plant is coming into bloom. In suitable soil it is perennial, and several crops may be cut every year. Height, one to three feet. Lb., 18c.

**Alsike, or Hybrid Clover.** (*Trifolium hybridum*.) A perennial, one to three feet high, succeeding best in cold and stiff soils, and in marshy lands which are too wet for other species. It grows well in the far North and in high altitudes, and can withstand severe cold. A good honey plant for bees. Fifteen pounds to the acre. Lb., 22c.

**Red Clover.** (*Trifolium pratense*.) One of the most valuable farm crops of the eastern States for pasture, hay, or for turning under for green manure. It requires a deep, rich soil, and yields two hay crops in the season. In this section, sow in the Spring at the rate of 15 pounds to the acre. Lb., 20c.

**Mammoth Red, or Sapling Clover.** Grows larger and lasts longer than the common red clover; valuable for plowing under. Ten pounds to the acre. Lb., 22c.

**Crimson, or German Clover.** (*Trifolium incarnatum*.) Erect annual, one to two feet high, with bright-scarlet flowers. A native of Southern Europe, it is largely grown in the South for improving the soil by turning under. It will not stand severe frost, and cannot be depended upon to stand the winter north of New Jersey. It is a valuable crop for pasture or green manure. For hay it should be cut when in full bloom. Sow 20 pounds to the acre. Lb., 10c.



Red Clover.

Gentlemen: I am well pleased with the results from your Vegetable and Flower Seed, and intend to deal with you on a large scale next season. Your Mushroom Spawn is excellent. I am going to recommend you to my friends and neighbors. Respectfully,

FRED JORZIG, Florist, at Doughoregan Manor.



## FORAGE AND MISCELLANEOUS SEEDS.

Write for samples and prices in larger quantities.  
Market price.



German, or Golden Millet.

**Soja Bean.** (*Glycine hispida*.) Thrives well in hot and dry weather. Valuable for the South. Does not make good hay, but is good as ensilage or green fodder. Market prices.

**Cotton.** (*Gossypium*.)—**Upland Big Boll.** Very prolific. Lb., 20c.

**Cow Peas.** (*Vigna Catjang*.) Specially adapted to warm countries; extensively grown in our Southern States; also valuable in this latitude as a fodder plant; their chief value, however, is as a green crop to plow under. The seed should not be sown till the ground has become warm.

**Black, Black-Eyed, Clay, New Era, Whippoorwill.** Market prices.



A Head of Japanese Buckwheat.

following season. Buckwheat frequently yields as much as 80 bushels to the acre. 15c. per qt.; peck, 50c.

**Peas—Canadian Field.** Valuable for Northern climates, for cattle-feeding, especially for milch cows. It also makes fine ensilage. It is sown broadcast in the Spring and harrowed in. If sown with oats, about 1½ bushels to the acre; in drills, two to three bushels to the acre. Market price.

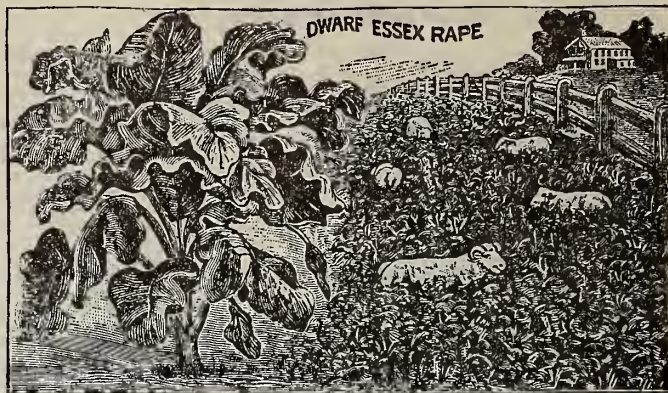
**Rape—Dwarf Essex English.** (*Brassica napus*.) Largely grown in

**German, or Golden Millet.** (*Panicum Millaceum* var.) An improved variety, medium early, growing three to five feet high. Heads are closely condensed, though the spikes are very numerous. During the past few years the fact has been established beyond doubt that seed of the German, or Golden Millet grown in Southern latitudes will produce a much larger yield of hay than from seed grown in Northern or Western sections of the country, and for that reason is far better for farmers to sow. Lb., 5c.

**Hungarian Grass, or Millet.** (*Panicum Germanicum*.) A species of millet growing less rank with smaller stalks, and often yielding two or three tons of hay per acre. It is very popular and valuable. Like the common millet, it is an annual, and requires to be sown every season, but will produce a larger return than almost any other crop. Lb., 5c.

**Barley, Oats, Rye, Wheat.** Market prices.

**Broom Corn.** (*Sorghum vulgare*.) Succeeds in a good, deep soil, fresh but not damp; very sensitive to cold. Long-brush Evergreen. Lb., 10c.



the Northern United States and in Canada. It is excellent for sheep and hog pasture, and chicken yards, also for soiling. It may be sown in May, and will be ready for pasturing in July and August. Or it may be sown in June or July, and yet furnish a large amount of pasture or fodder. In drills, sow five pounds to the acre; sown broadcast, ten pounds to the acre. Lb., 10c.; per 100, \$8.00.

**Kaffir Corn.** Non-saccharine. The plant is low, stalky, perfectly erect. The whole stalk, as well as the blades, cures into excellent fodder, and in all stages it is available for green feed. The seed making excellent chicken and pigeon food. Lb., 10c.

**SORGHUM, OR SUGAR CANE.**

**Early Amber.** Ripens wherever Yellow Corn matures. Grows 10 to 13 feet high. Fine for cows, either green or cured. Lb., 10c.

**Early Orange.** Ripens about 10 days after Early Amber, and is said to produce a larger crop. Lb., 10c.

**Sunflower—Large Russian.** Lb., 10c.

**Vetches—Spring Tares.** (*Vicia sativa*.) Sown broadcast at rate of 60 pounds to the acre, like wheat or barley, and sometimes mixed with oats for soiling. Used in France and Canada as a substitute for peas. Price variable.

**Sand, Winter, or Hairy Vetch.** (*Vicia villosa*.) Thrives on poor, arid, sandy soils. It may be sown either in Fall or in Spring, mixed with rye, for a support. Grows three to four feet high, and can be cut as soon as the bloom appears, and again for the seed. Perfectly hardy. Sow 50 pounds to the acre. Price variable. Lb., 15c.

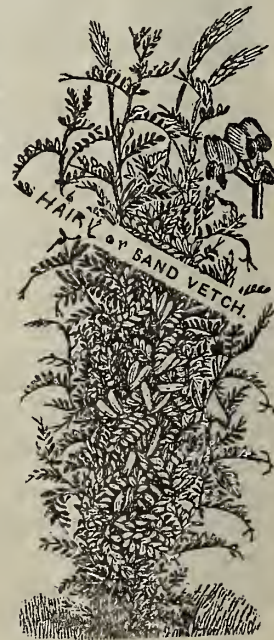
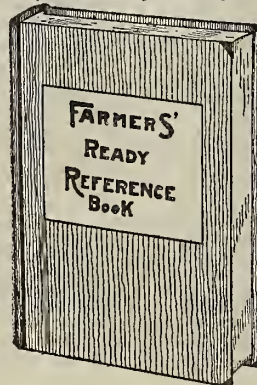


Amber Sorghum.

## FREE NOTICE FREE

With every Garden or Flower Seed Order amounting to \$5.00 or over we will send one copy of the 186-page Farmers' Ready Reference Book. The most complete Farm Book on the market. Every department of Farm Life covered in detail by Experts. Classified and indexed for convenient use.

Alphabetically Arranged:



St. Michaels, Md., April 21st, 1914. Perhaps you will be glad to know that the Yellow Danver Onion Sets, received from you, are coming up finely. I have a notion our onion fields are going to attract a good deal of attention in this vicinity. Very truly yours,

GUION P. WILSON.



## FARMOGERM NITROGEN GATHERING BACTERIA.



Nitrate Sacks, or Nodules, on Cow Pea Roots.

"Alfalfa." The greatest forage crop known is now grown with great success in all sections. This wonderful crop can be grown wherever the soil has good drainage—seed bed well prepared and seed inoculated. The Agricultural Experiment Stations have demonstrated that the reason for failure to grow Alfalfa is because of the absence of the proper bacteria in the soil, and by the use of Farmogerm inoculation upon the seeds this condition has been overcome, and Alfalfa is a decided success. Farmogerm will provide all inoculations for Alfalfa or any other legumes. It comes in bottles ready for use. You can inoculate the seed for ten acres in ten minutes.

Clovers, Soy Beans, Cow Peas, Beans are legumes, and are greatly benefited by the proper inoculation. This inoculation not only increases the crop in weight, but also in richness, and deposits in the ground upon the legume roots great quantities of nitrates.

Garden Peas, Beans, Sweet Peas yield earlier and longer when inoculated. Order Farmogerm for all these seeds. Prices: Five-acre size bottle, \$9.00; one-acre size bottle, \$2.00; garden-size bottle, 25c. and 50c.

## MULFORD'S NIROGERM

Nitrogen Gathering Bacteria

Quarter Acre, 50c. One Acre, \$1.50 Five Acres, \$5.00

## The Improved German Soil Inoculator, Nobbe-Hiltner Process

# NITRAGIN

TRADE MARK REGD. DEC. 6, 1898 NO. 3212

### PURE CULTURE

THE SIMPLEST SAFEST AND SUREST SYSTEM OF SOIL INOCULATION FOR ALL LEGUMES

"Nitragin" is the trade-mark name for the special germ that acts on the legume root, draws nitrogen from the air and converts it into plant food. As a result there is a uniform "catch"; the crop grows quickly; it is strong, hardy and healthy—deep-rooted—rich in food value. The soil is enriched for succeeding crops.

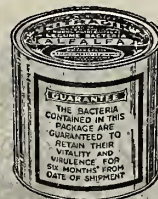
GET THE ORIGINAL—Look for the Armour Oval Label.

This is the original Pure Culture—discovered by Nobbe and Hiltner, famous German bacteriologists. It has been perfected by twenty years of scientific testing, in the laboratory and on the farm. The germs come to you packed in a granular food—in a ventilated can—the safe and satisfactory way.

Nitragin Pure Culture is guaranteed by Armour Fertilizer Works for 6 months from date of preparation, marked on can. A special strain for each legume. In ordering state crop desired.

Prices, per can: garden size, \$1.00; acre size, \$2.00; 5-acre size, \$9.00; f. o. b. Baltimore, express extra. Parcel Post, 10c. per acre extra.

Order "Nitragin" Pure Culture with your seed.



Popping Corn.

## POP CORN.

There is hardly a home in the country during winter where popping of corn is not a pastime. Not all Pop Corn is the right kind for popping. What we offer can be relied upon for planting or popping.

White Rice. Lb., 10c.; 3 lbs., 25c., 10 lbs., 75c.  
Corn Poppers. 15c. each.

## SELECTED LIST OF M. & S. FLOWER SEEDS.

(ORDER BY NUMBER)

All Flower Seeds are 5c a Package, unless otherwise noted.

Culture—Directions are Given on Preceding Page.

All Annuals are marked (a) All Perennials are marked (p)

Hints and information on how and what kind of annuals and perennials to grow will be found at the end of Flower Seed list, page 30.



1. Adonis.

an annual and the seed sown every year. Height, 1½ feet. White, Scarlet, Pink, Striped, Yellow and all colors mixed.



2. Ageratum.



6. Antirrhinum.

(Aster Seeds continued on next page.)

1. Adonis. (a). Attractive bright flowers—Crimson.

2. Ageratum. (a). (Leberbalsam.) For beds or borders. Dwarf, mixed.

3. Alyssum. (a). (Steinkraut.) Carpet of Snow. Dwarf, pure white.

4. Amaranthus. (a). Caudatus. (Fuchschwanz.) Love Lies Bleeding.

5. Amaranthus. (a). Tri-color Splendens. Joseph's Coat.

6. Antirrhinum. Snapdragon. (p). (Lowenmaul.) A splendid plant for beds or borders and one of our choicest cut flowers; extensively forced under glass during the winter. To have flowers early sow indoors from February till May, but even if sown outdoors in May it will flower profusely in September. If properly protected during the winter they will revive and throw up gigantic spikes of flowers during the summer. The Snapdragon is treated as

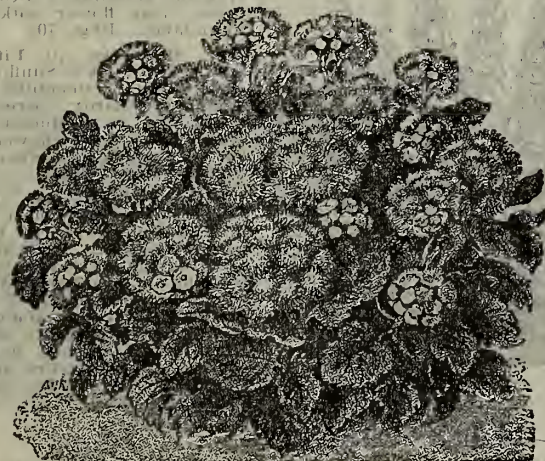
an annual and the seed sown every year. Height, 1½ feet. White, Scarlet, Pink, Striped, Yellow and all colors mixed.

7. Asters. (a). (Aster.) To do well, require a well - pulverized soil, always kept open by continuous cultivation. If soil is heavy and mostly composed of clay, it is well to mix sand with it.

8. Aster (Paeonie.) Flowering, choicest mixed. 10c. pkg.; 3 for 25c.

9. Aster. (Ost-rich Plum.) Very beautiful; mixed. 10c. pkg.; 3 for 25c.

10. Asters. Sample's Branching. In five distinct colors. White, Pink, Dark Red, Light Blue, Dark Blue and all colors mixed. 10c. pkg.; 3 for 25c.







9. Semple's Branching Asters.

18. *Canna*. (a). One of the finest bedding plants. 18½. *Canabis Gigantea*. (a). (Giant Hemp) For backgrounds; 10 ft. 19. *Callipolis*, or *Coccoris*. (a). (Golden Wave.) (Schoenoglossis.) Showy, free-flowering, hardy annuals of easy cultivation. Choicest, mixed.

20. *Canary Bird Flower Vine*. (a). (Kananische Kresse.) One of the most charming annual climbers, bearing an abundance of bright yellow, fringed flowers.

21. *Candytuft*. (a). (Schleiferblume.) For beds and massing, mixed.

22. *Carnation*. (a). (Marguerite Nelken.) Very best variety for amateurs. Popular with all growers, mixed. 10c. pkg.; 3 for 25c.

23. *Celosia*. (a). (Coxcomb.) (Hahnenkamm.) Free-blooming. Grand for borders and very good for pots, mixed.

24. *Centaurea Cyanus*. (a). (Bachelor Button, or Corn Flower.) (Kornblumen.) Emperor William, deep blue. 10c. pkg. White, Pink and all colors mixed, 5c. pkg.

25. *Centaurea*. (a). (Dusty Miller.) For borders. Beautiful silver leaves. Grown for their silvery foliage as edging plants.

26. *Cerastium Tomentosum*. (a). (Hornkraut.) (Snow in Summer.) Dwarf, white-leaved edging plant; flowers white; 4 inches high.

27. *Chrysanthemum*. (a). (Wunderblume.) Choicest mixed.

28. *Cineraria*. (p). (Wandelblume.) For hothouse and window garden. Price mixture, 25c. and 60c. pkgs.

29. *Clarkia*. (a). (Scharlach Koenigen.) One of the prettiest and showiest of hardy annuals. The plants bloom so freely and have flowers of such various bright colors that a bed of them in full bloom is a beautiful sight. They are useful, too, for hanging baskets, for vases and as edging plants. Sow outdoors in early spring and grow in partial shade. They bloom through mid-summer to late autumn. Average height, 1½ feet.

30. *Cleome*. (a). (Curious; very ornamental, on Castor Oil Plant style. Sandy soil suits them best. Height, 2 feet. Pkg., 10c.

31. *Cobaea Scandens*. (a). (Cups and Saucers Vine.) Well-known climber of rapid growth, producing large bell-shaped blossoms; in sowing, place the seeds edgewise, and merely cover with light soil.

32. *Cosmos*. (a). (Cosma. An Autumn-flowering plant. A charming, profuse bloomer. Giant Red, Pink, White, and all colors mixed. Pkg., 5c. oz., 50c.

33. *Early Summer-Flowering Cosmos*. Coming into flower in July, continuing until frost. Can be grown in the North where the seasons are too short for other strains. Dwarf, compact growth—4 feet. Flower beautiful and large; petals broad; all colors mixed; profuse bloomer. Pkt., 5c.; oz., 50c.

34. *Colius*. (a). Large Leaved Hybrids. Popular bedding plants with beautifully colored foliage; easily grown from seed if kept in warm temperature. Pkg., 10c.; 3 for 25c.

35. *Cypress Vine*. (a). Popular vine, fern-like foliage and masses of beautiful small star-shaped flowers. White and scarlet, mixed.



39. China Pinks.

36. *Dahlia*. (a). (Georginen.) Bloom first year from seed if sown early. Double mixed.

37. *Dahlia*. (a). (Georginen.) Single varieties from seed; are very popular, mixed.

38. *Daisy, English Double*. (p). (Bellis Perennis.) (Marien blumen.) Seed should be sown from June 1st till September, transplanted in the fall, and they will flower the following spring. If sown in the spring they will flower in the autumn; 4 inches. Pkt., 10c.; 3 for 25c.

39. *Dianthus*. (p). *China Pink*. (Stellis Perennis.) One of the most popular flowers in cultivation, blooms profusely. Great variety of colors. Extra choice. Single mixed; crimson; Rose and mixed fringed.

40. *Delphinium*. (p). (Hardy Perennial Larkspur.) (Rittersporn.) Highly prepossessing plants of stately appearance; of easiest culture, they are readily the most popular of all hardy plants. Their main season of bloom is in June, but if the flower-spikes are cut back promptly it will branch and flower all through Fall. *Formosum*. Blue, white centre. *Chinese Album*. White. *Chinese Azureum*. Blue. *Kelway's Giant*. Mixed. Pkg., 10c.; 3 for 25c.

41. *Dimorphotheca*. (a). *Golden Orange Daisy*. (Goldgelbe Marquerte.) One of the showiest garden plants of recent introduction; fairly compact, bushy plants are literally covered with brilliant orange-gold, daisy-like blooms, on fairly long stems during the entire season; excellent for cutting. Pkt., 10c.; 3 for 25c.

42. *Digitalis*. (p). *Foxglove*. (Fingerhut.) Handsome ornamental hardy plants of stately growth, succeeding almost anywhere. Produces long spikes of beautiful, tubular-shaped flowers; 4 to 5 feet.

43. *Dolichos*. (a). *Hyacinth Bean*, or *Texas Climber*. Showy climber, making rapid growth. White and purple. Pkt., 5c.; oz., 15c.

44. *Helichrysum*. (a). (Straw Flower.) (Strohblume.) Popular, everlasting.

45. *Eschscholtzia*. (a). (California Poppy.) (Karminkoenig.) Choice mixture.

46. *Euphorbia*. (a). White and green; height, 2 feet. Known as "Snow on the Mountain."

47. *Euphorbia heterophylla*. (a). *Carmine*; height, 2 feet. Mexican fire plant. Pkg., 10c.

48. *Gourds*. (a). (Zierkurbis.) Luffa, Nest Egg, Hercules Cup, Pear Shape, Mock Orange, Sugar Trough, and a general mixture; rapid climbers.

49. *Gallardia*. (a). (Blanket Flower.) Very fine mixture.

50. *Gypsophila*. (a). (Baby's Breath.) (Schleierblume.) Pretty, free-flowering plants of easy culture; excellent for cutting to mix with Sweet Peas; 2 feet. *Elegant Alba Grandiflora*.

51. *Helianthus*. (a). (Sunflower.) (Sonnenblume.) Oscar Wilde, single, yellow.

52. *Helianthus*. (a). (Sunflower.) (Sonnenblume.) Dwarf, double, 3 feet high.

53. *Heliotrope*. (a). (Giant Hybrids, Lemones.) Produces extra large flower spikes in abundance. Pkg., 10c.

54. *Heliothis*. (p). *Pitcheriana*. (Orange Sunflower.) (Pfeifeurande Sonnenblume.) A handsome hardy perennial, producing an abundance of deep orange yellow flowers the entire summer; excellent for cutting; 3 to 4 feet.

55. *Hollyhock*. (p). (Malven.) One of the most popular and desirable of hardy perennial plants; excellent for planting among shrubbery or forming a background for other flowers; 6 to 7 feet. *Chater's Improved Double Hollyhock* in separate colors, Pink, White, Salmon, Maroon, Yellow and all colors mixed. Pkg., 10c.; 3 for 25c. Single Mixed, 5c. pkg.



42. Foxglove.



CYPRESS VINE.

56. *Hollyhock*. (p). (Malven.) One of the most popular and desirable of hardy perennial plants; excellent for planting among shrubbery or forming a background for other flowers; 6 to 7 feet. *Chater's Improved Double Hollyhock* in separate colors, Pink, White, Salmon, Maroon, Yellow and all colors mixed. Pkg., 10c.; 3 for 25c. Single Mixed, 5c. pkg.

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ALL FLOWER SEEDS 5 CENTS A PACKAGE UNLESS OTHERWISE NOTED.

I have bought flower seeds from you, which were planted in the grounds of the Aged Women and Aged Men's Home, and they did so well that I have to tell you about it. Yours truly,

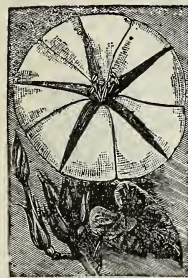
MRS. M. C. BAINBRIDGE, 1320 Bolton Street, Baltimore, Md.



**ALL FLOWER SEEDS ARE 5 CENTS A PACKAGE, UNLESS OTHERWISE NOTED. (ORDER BY NUMBER.)**

56. *Humulus*. (a). (Japanese Hop.) (Japanscher Hopfen.) A rapid growing annual climber with luxuriant foliage.

57. *Hunnenmannia*. (a). Giant Yellow Tulp Poppy. (Fumariae-rolia. Sown outdoors in May it produces large quantities of giant yellow tulip-like flowers during end of August, continuing for the balance of the season; the foliage resembles *Eschscholtzia*; height, 2 feet.



58. Moon Flower.

61. *Lantana*. (a). (Bergsalbei.) Most desirable hedging plant; seeds are best germinated in a greenhouse from January till March; flowers resemble *Verbenas*; plants grow erect and remain in bloom all summer.

62. *Larkspur*. (a). (Rittersporn.) Double dwarf Rocket, finest mixture.

63. *Lathyrus latifolius*. (p). (Everlasting or Perennial Sweet Pea.) Ausdauernde Wicke.) Free flowering, resembling Sweet Peas in growth, foliage and flowers, which are excellent for cutting.

64. *Lobelia*. (a). (Spaltglockchen.) Dwarf varieties for hedging. Mixed.

65. *Lobelia*. (a). (Spaltglockchen.) Dwarf French and tall; fine colors, mixed, double, 5c. each.

66. *Lupinus*. (a). (Wolfsbohne.) Very desirable garden plants, showy and excellent for cutting. Graceful spikes, 2 feet long, in various shades of white, blue, pink and yellow mixed.

67. *Marvel of Peru*. (a). (Four-o'clock.) (Wunderhulme.) Choice mixed.

68. *Mignonette*. (a). (Reseda.) Valuable for cutting on account of its fragrance. Sown in succession during the whole summer.

69. *Moon Flower*. (a). (Ipomoea noctiflora.) (Nachtblühende Winde.) (Climber. At night and during dull days the plants are covered with an abundance of large, pure white fragrant flowers.

70. *Mimulus*. (a). Showy profuse flowering plants; fine for greenhouse or moist shady situations.

71. *Moschatum*. (Musk Plant.) (Moschuspflanze.) Fine for hanging baskets; yellow flowers, fragrant foliage; 6 inches.

72. *Tigridus*. (Monkey Flower.) (Gauklerhulme.) Fine mixed tigered and spotted varieties; 1 foot.

73. *Morning Glory*. (a). (Imperial Japanese) Trichterwinde. One of the most popular annual climbers, rapid grower. Pkt. 5c.; oz., 10c., all colors mixed.

74. *Myosotis*. (p). (Forget-Me-Not.) (Vergissmännchen.) The Forget-Me-Not is an old favorite; bearing clusters of star-shaped flowers. Succeeds best in a moist, shady situation, and blooms the first year from seed if sown early. Seed sown in autumn in flowers in early spring.

75. *Nicotiana*. (a). (Tobak.) Splendid, pure white, Bouvardia-like flowers on long terminal tubes. It is so fragrant that a small bed will perfume the surrounding atmosphere.

76. *Oenothera*. (a). (Evening Primrose.) (Nachtkeze.) Beautiful, low-growing plant, producing large, silvery white, rose and yellow flowers. They thrive best in a sunny position, but succeed in almost any situation or soil. Annual varieties, all colors mixed.

77. *Passion Flower*. (p). (Southern Beauty.) (Passionshulme.) Climber mixed. Called "Passion Flower" on account of a resemblance in the flower to the appearance presented at Calvary.

78. *Portulaca*. (a). (Mexican Rose.) (Portulak roechen.) Choice single and double, mixed colors.

79. *Pansies*. (a). (Stiefmutterchen.) Strictly considered, this is a biennial, but the fact that it flowers the first season from seed recommends it for an annual. There are actually three seasons in which pansies can be planted. If started in the house from February till April pansies will begin to bloom from July on; sown outdoors in May beautiful flowers are produced in the fall; sown in frames during July and August and transplanting later gives us the main crop of flowers in the following spring. Pansies thrive best in moist, semi-shady situations.

80. *M. & S. Giant Exhibition Pansy*. A blending of our own containing only the very choicest the specialists in Europe have to offer; it can be relied upon to produce flowers of immense size, very heavy texture and of the most brilliant colors. Pkt., 10c.; 3 for 25c.; \$2.50 per oz.

81. *Triumph of the Giant Pansies*. Immense flowers of great brilliancy and richness of coloring, including many new and rare shades. Pkt., 25c.; 5 pkts., \$1.00.

82. *Very Fine Mixed Pansy*. Pkt., 5c.; oz., 75c.

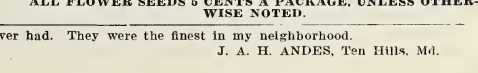
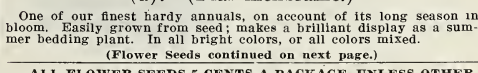
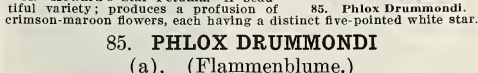
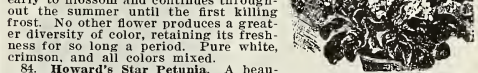
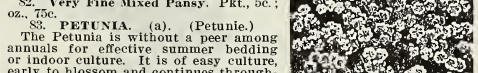
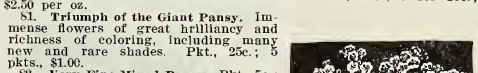
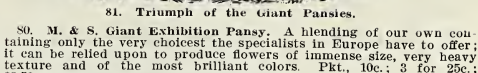
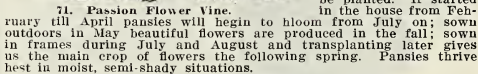
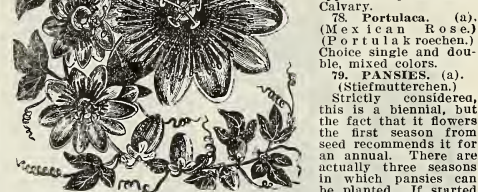
83. *PETUNIA*. (a). (Petunie.) The Petunia is without a peer among annuals for effective summer bedding and richness of coloring. It is of easy culture, early to blossom and continues throughout the summer until the first killing frost. No other flower produces a greater diversity of color, retaining its freshness for so long a period. Pure white, crimson, and all colors mixed.

84. *Howard's Star Petunia*. A beautiful variety; produces a profusion of crimson-maroon flowers, each having a distinct five-pointed white star.

85. *PHLOX DRUMMONDI* (a). (Flammenblume.) One of our finest hardy annuals, on account of its long season in bloom. Easily grown from seed; makes a brilliant display as a summer bedding plant. In all bright colors, or all colors mixed.

(Flower Seeds continued on next page.)

**ALL FLOWER SEEDS 5 CENTS A PACKAGE, UNLESS OTHERWISE NOTED.**



48. Mixed Gourds.

Your M. & S. Glitedge Mixture Sweet Peas produced the finest I ever had. They were the finest in my neighborhood.

Yours truly,

J. A. H. ANDES, Ten Hills, Md.



## ALL FLOWER SEEDS 5 CENTS A PACKAGE, UNLESS OTHERWISE NOTED.

86. **Hardy Phlox.** (p.) (*Pseudeira Flammulabunda*). For a gorgeous show these are the most satisfactory of all perennial plants 2 feet high, in all bright colors; seeds sown late in fall will germinate in the spring; mixed and White, Pink, Lavender and Scarlet. Pkt., 10c.; 3 for 25c.

87. **POPPIES.** (a.) (*Gartenmohn*).88. **Oriental Poppies.**

90. **Double Flowered Mixed Poppies.** Immense double flowers resembling a Peony; 2 feet; finest mixed.

91. **M. & S. Shirley Poppies.** A bed of these poppies produces a gorgeous effect in the garden; large flowers with brilliant colors, mixed.

92. **Rhodanthé.** (a.) Very beautiful, delicate looking, everlasting. Much prized for winter bouquets. Red and white and both colors mixed.

93. **RICINUS** (a.) **Castor Oil Bean**  
(*Wunderbaum*).

One of our best ornamental-leaved annual plants, largely used for the centre of beds, being splendidly effective grouped with *Cannas*, *Caladiums* and other tall plants.

94. **Zanzibaricus.** A new and distinct class, surpassing in size and beauty all varieties hitherto known. Plants attain great dimensions—12 to 14 feet. Leaves vary in color from light green to purplish-red. Pkt., 5c.; oz., 10c.

95. **Borbonicus.** Very large and most showy green foliage; standard variety. 10 to 15 feet. Pkt., 5c.; oz., 10c.

96. **Philippinensis.** A variety from the Philippines, with beautiful and gigantic purple leaves. 10 feet. Pkt., 5c.; oz., 10c.

97. **M. & S. Ricinus Mixture.** Appreciating fully the splendid effects that a fine array of these desirable foliage plants will make in your garden, we have composed a mixture that for elegant blending is unsurpassed. Pkt., 5c.; oz., 10c.

98. **SALVIA.** (a.) **Scarlet Sage** (*Salbei*).

This popular bedding plant is impossible to be replaced. There is nothing more effective in the fall or mid-summer than these bright scarlet flowers. Seeds should be started either in the house from February till April or in hotbeds.

99. **Bonfire.** Compact bushy plants two feet high, producing innumerable erect spikes of the most brilliant scarlet flowers. Height, 2½ to 3 feet. ¼ oz., 50c.; pkt., 5c.

100. **Early Dwarf Zurich Salvia.** Grows only 12 to 15 inches high, with many fine, erect, slender spikes to each plant borne well above its handsome foliage. Color brilliant scarlet. Earliest of all. Pkt., 10c.

101. **Silverspot Salvia.** Rich green leaves elegantly spotted with yellow. The intense, bright scarlet flowers are large and lavishly borne; neat and compact; 2½ feet. Pkt., 10c.

102. **Salpiglossis.** (a.) (*Painted Tongue*). (*Trompeten zunge*). Very beautiful hardy annual plants, flowering freely from July to the autumn. Rich soil should be provided, with plenty of space for plants to develop.

We can furnish all kinds of books on Horticulture and Gardening, if interested, write.

78. **Salvia Bonfire.**

103. **Scabiosa.** (a.) (*Scabiosa*). (*Sweet Scabiosa*, *Mourning Bride*, *Pink-Cushion Flower*, *Egyptian Rose*, etc.) While many plant yearly a bed or border of *Scabiosa*, there are thousands of gardens where this splendid annual is unknown. It is to bring them forcibly to your attention that we place these beautiful *Scabiosa* so prominently before you. They are of the easiest culture. The seed can be sown any time in the Spring after danger from frost is past. The plants grow about 2½ feet high, and come into bloom early in July, continuing without interruption until the hard frosts of Autumn. The exquisite double flowers are borne on very long stems, and when cut keep in perfect condition for the best part of a week. They make most effective borders or beds, and no garden can be considered complete without *Scabiosa* where many flowers are wanted for cutting.

104. **SWEET WILLIAM** (p).

(Dianthus Barbatius.) (Bartnelke).

This is one of the finest of our hardy garden plants; of easy culture; thriving in any good garden soil and lasting for years. The plants grow about 1½ feet high, and form fine clumps; produces fine effects in beds and shrubbery. Single Crimson, Single Red with white eye, Single Velvety Maroon, Single White and choicest double Mixed, Single Mixed, all colors. Each, 5c. pkt.

105. **Sweet Sultan.** (a.) (*Centaurea Moschatius*). (*Wholriehende Kornblume*). Hardy annual; flowers resemble "Bachelor's Buttons." Fragrant flower on long stems.

106. **Thunbergia.** (a.) (*Black-eyed Susan*). Beautiful. Very ornamental climber.



Sweet William.

107. **VERBENA.** (a.) (*Verbene*).

An excellent annual for beds and massing, and for a gorgeous display during the summer months cannot be excelled, commencing to flower in July and continuing until frost. Our Mammoth Fancy Strain cannot be surpassed for profusion of bloom and beautiful colors and shades. M. & S. Fancy White, Scarlet, Dark Blue, Striped, Light Blue, and all colors mixed.

108. **Vinea.** (p.) (*Madagascar Periwinkle*). (*Immergreen*) Dwarf bedding plants with deep green glossy foliage and bright single blossoms of striking beauty; sow early.

109. **Violet.** (p.) (*Veilchen*). Deservedly much in demand, because of their profusion of bloom and delicate, sweet odor. Pkt., 10c.

110. **WALLFLOWER.** (p.) (*Goldlack*).

Favorite sweet-scented flowers, of fine colors. Splendid for cutting and useful as spring bedders.

111. **Cloth of Gold.** Yellow.

112. **Early Feltham.** fine brown dwarf.

113. **Vulcan.** dark blood red.

114. All colors mixed.

115. **Wild Flower Garden.** (a.) Fine mixture of old favorites. Pkt., 5c.; oz., 15c.

116. **Zinnia.** (a.) (*Youth and Old Age*). (*Yung und Alt*). One of the most brilliant and showy of annuals, and has long been a general favorite. They come to flower early in the summer, and keep on blooming until frost. Require little attention and succeed almost anywhere. For perfection of blossom start the seeds in March, and prick out once or twice before transferring to the open border in May or June. Provide the plants with plenty of room, at least 18 inches apart each way, and they soon completely cover the ground.

117. **M. & S. Dwarf.** Double in eight distinct colors and all colors mixed. Each, 5c. a pkg.; oz., 50c.

## ALL FLOWER SEEDS 5 CENTS A PACKAGE, UNLESS OTHERWISE NOTED.

Gentlemen: It affords me great pleasure to inform you that from the Collier's Success Seed Corn you shipped me I raised 11 barrels of corn to the acre on land which had no fertilizer or manure for two years. Yours truly,

F. SANDER, Woodwardville, Md.



ALL FLOWER SEEDS 5 CENTS A PACKAGE, UNLESS OTHERWISE NOTED.

# 118. M. & S. GIANT DWARF NASTURTIUMS.

(a). (Kapuzinerkresse.)



M. & S. Fancy Giant Mixed Dwarf. This is one of the finest mixtures ever offered; composed of the largest and finest varieties. Pkt., 5c.; oz., 10c.; 2 oz., 15c.; ¼ lb., 25c.; ½ lb., 50c.

## M. & S. DWARF NAMED NASTURTIUMS.

**Aurora.** Rich yellow, veined carmine.  
**Chameleon.** Produces various colors and markings on the same plant.  
**Empress of India.** Dark leaved, velvety dark scarlet flowers, select stock.  
**Ladybird.** Rich yellow, scarlet spotted flowers, dark-leaved, splendid.  
**Queen of Tom Thumbs.** Variegated foliage, choicest mixture.  
**Golden Queen.** Yellow leaved with golden yellow flowers.  
 Prices of all the above varieties as follows: Pkt., 5c.; oz., 10c.; 2 oz., 15c.; ¼ lb., 25c.; ½ lb., 50c.

## M. & S. TALL OR CLIMBING NASTURTIUMS.

This mixture cannot be excelled for large size and beautiful colors of the flowers. Composed of the largest and finest varieties. For covering trellises, fences, arbors, piazzas, trailing from vases, over rock-work, etc., nothing equally gorgeous effect produced by that great quantities of bloom from early summer until frost; height, 8 to 10 feet. Pkt., 5c.; oz., 10c.; 2 oz., 15c.; ¼ lb., 25c.; ½ lb., 50c.

## M. & S. SWEET PEAS (Ger. Suesse Wicken).



Sweet Peas, owing to the extremely short crops for the last two years are very scarce, and whilst the prices quoted are not firm, we shall endeavor to adhere to them as long as we can. Intending purchasers are strongly advised to order as soon as possible after receipt of catalogue. It will be difficult to replace the seed when our supply is sold.

Through the skill of specialists, the Sweet Pea has become much larger and lovelier than before it became so popular. There are flowers of quite distinct shapes, some of which are a

great improvement upon the Sweet Pea of the old type. For garden decoration it is now grown in clumps, and in separate colors. The plants are more robust, dwarf, branching, and bloom more freely, some varieties showing three to four blooms on a stem. A deep, rich, moist soil is best suited to Sweet Peas, hence a trench should be dug 1½ feet deep and filled with very best loam mixed with bone meal or well-rotted stable manure. The vines are usually grown in double rows, with a wire net or a row of brush between. For each double row make the drills about 6 inches deep, and 9 or 10 inches apart. Sow plentifully, covering about 2 inches deep, and by degrees, as the vines grow up, fill the trenches with soil, and thin out to about 2 or 3 inches apart. Spring sowings should be made just as early as the ground can be prepared. The earliest flowers are from seed sown in fall, preferably in a dry situation, and 6 or 8 inches deep, giving them level culture. Sweet Peas should not be grown on the same soil year after year. If the location cannot be changed, the soil to the depth and width of a foot or so should be removed and replaced by soil from another part of the garden or grounds. If the soil is in good rich condition, bone meal is the best fertilizer.

## NITROGEN BACTERIA "FARMOGERM."

The ideal preparation for treating sweet peas seed when planting. It makes larger and more flowers, longer stems; prolongs the blooming period. 25c. and 50c. per bottle. See page 25 for full particulars.

## M. & S. GILT EDGE SWEET PEA MIXTURE.

This superb mixture is blended by us with extraordinary care from named varieties of the most improved large flowering type, including recent American and European novelties, as well as a great many new hybrids, as yet unnamed, insuring a gorgeous color effect. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; ½ lb., 40c.; 1 lb., 75c.

## SPENCER VARIETIES MIXED SWEET PEAS.

Spencer Varieties Mixed Sweet Peas. A special mixture of the Spencer type. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; 1 lb., \$1.50.

## M. & S. SELECTED NAMED SWEET PEAS—STANDARD VARIETIES.

The varieties we offer below have been selected from a large list and embrace only the very best large flowering sorts and for freedom of bloom, size of flowers and length of stem cannot be surpassed.

**America.** Blood red striped on white.  
**Bianche Burpee.** Large pure white.  
**Blanche Ferry.** Standard carmine rose, wings white tinged pink.  
**Countess of Radnor.** Delicate lavender standard, dark mauve wings, dainty, white edged pink.  
**Dorothy Eckford.** Fine pure white large flowers.  
**Emily Henderson.** Splendid pure white, good for forcings.  
**Jeannette Scott.** Pink; very fine.  
**Katherine Tracy.** Soft brilliant pink.  
**Lady Grisell Hamilton.** Light lavender standard, sky blue wings; splendid.  
**Lord Nelson.** Rich navy blue.  
**Mars.** Bright red.  
**Miss Willmott.** Large orange pink.  
**Othello.** Very dark maroon.  
**Prima Donna.** Lovely soft pink.  
**Queen Alexandra.** Bright scarlet red, large flower.  
**Salopian.** Splendid brilliant scarlet.  
**Senator.** Striped.

## CHRISTMAS, OR WINTER FLOWERING SWEET PEAS.

For Forcing Indoors.

**Christmas Pink.** Pink and White.  
**Christmas White.**  
**Christmas Captain.** Blue and Purple.  
**Christmas Meteor.** Scarlet.  
 Prices: Ounce, 25c.; pound, \$2.00.

This seed has been grown from originator's stock and can be depended upon for excellent results.

Prices on the above each package 5c.; oz., 10c.; ¼ lb., 35c.; 1 lb., \$1.25.

ALL FLOWER SEEDS 5 CENTS PACKAGE, UNLESS OTHERWISE NOTED.

Mrs. Geo. R. Willis, of Bengies, Md., writes us: Gentlemen: I want to say to you that I have had better success with your Sweet Pea Mixture than any I have bought.



## Annuals, and How to Grow Them

Annual plants are those that you must sow every year. The staid perennials I want for the main and permanent effects in my garden, but I could no more do without annuals than I could do without the spices and the condiments at the table.

Of the kinds of annuals there is almost no end. This does not mean that all are equally good. For myself I like to make the bold effects with a few of the old profuse and reliable kinds. I like whole masses and clouds of them. Then the other kinds I like to grow in smaller areas at one side, in a half experimental way. There is no need of trying to grow equal quantities of all.

For the main and bold effects I want something that I can depend on. There I do not want to experiment. Never fill a conspicuous place with a kind of plant you have never grown.

The kinds I like best are the ones easiest to grow. Zinnia, Petunia, Marigold, Four O'Clock, Sunflower, Phlox, Scabiosa, Sweet Sultan, Bachelor's Button, Verbena, Calendula, Calliopsis, Morning-glory, Nasturtium, Sweet Pea,—these are some of the kinds that are surest. I do not know where the investment of five cents will bring as great reward as in a packet of seeds of any of these plants.

Make the soil rich and fine and soft and deep, just as you would for radishes or onions. There are some plants for which the soil can be made too rich, of course, but most persons do not err in this direction. The finer and more broken down the manure the better. Spade it in. Mix it thoroughly with the soil. If the soil is clay-like, see that fine manure is thoroughly mixed with the surface layer to prevent "baking."

First and last, I have grown practically every annual offered in the American trade. It is surprising how few of the uncommon or little-known sorts really have great merit for general purposes. There is nothing yet to take the place of the old-time groups, such as *Amaranthus*, *Zinnias*, *Calendulas*, *Daturas*, *Balsams*, *Annual Pinks*, *Candytufts*, *Bachelor's Buttons*, *Wall-flower*, *Larkspurs*, *Petunias*, *Gaillardias*, *Snapdragons*, *Cocks-combs*, *Lobelias*, *Coreopsis* or *Calliopsis*,

*California Poppies*, *Four O'Clocks*, *Sweet Sultans*, *Phloxes*, *Mignonettes*, *Scabiosas*, *Nasturtiums*, *Marigolds*, *China Asters*, *Salpiglossis*, *Nicotianas*, *Pansies*, *Portulacas*, *Castor Beans*, *Poppies*, *Sunflowers*, *Verbenas*, *Stocks*, *Alyssums*, and such good old running plants as *Scarlet Runners*, *Sweet Peas*, *Convolvuluses*, *Ipomeas*, *Nasturtiums*, *Balloon Vines*, *Cobaeas*, etc.

For bold mass-displays of color in the rear parts of the grounds or along the borders, some of the coarser species are desirable. My own favorites for such use are: *Sunflower* and *Castor Bean* for the back rows; *Zinnias* for bright effects in the scarlets and lilacs; *African Marigolds* for brilliant yellows; *Nicotianas* for whites; *Larkspurs* for blues.

For lower-growing and less gross mass-displays, the following are good: *California Poppies* for oranges and yellows; *Sweet Sultans* for purples, whites and pale yellows; *Petunias* for purples, violets and whites; *Bachelor's Buttons* (or *Cornflowers*) for blues; *Calliopsis* and *Coreopsis* and *Calendulas* for yellows; *Gaillardias* for red-yellows; *China Asters* for many colors.

For still less robustness good mass-displays can be made with the following: *Alyssums* and *Candytufts* for whites; *Phloxes* for whites and various pinks and reds; *Lobelias* and *Browallias* for blues; *Pinks* for whites and various shades of pink; *Stocks* for whites and reds; *Wall-flowers* for brown-yellows; *Verbenas* for many colors.

If flowers of any annual are wanted extra early, the seeds should be started indoors.

A number of the very late-flowering annuals should also be started indoors for best success in the northern States, as, for example, the *Moonflowers* and the tall-growing kinds of *Cosmos*.

Of late years there has been a strong movement to introduce the hardy perennials into general cultivation. This is certainly to be encouraged everywhere, since it adds a feeling of permanency and purposefulness that is needed in American gardens. Yet I should be sorry if this movement were to obscure the importance of the annuals.—By Prof L. H. Bailey.

## Raising Hardy Perennials from Seed.

Hardy perennials are easily grown from seed. In many cases they are a little slower than annuals, but with intelligent care they are successfully raised, and from seed is an excellent way to get up a big stock of perennials in a short time. Many perennials, if sown in spring, bloom the first year from seed as freely as annuals. Others wait a year; that is, if sown this year they don't bloom until next year.

The seeds may be sown in spring or in summer. In spring the sowings may be made in the window, the hot bed, the cold frame, the greenhouse or in the open ground out of doors. In the window prepare pots or flower-pans or small, shallow wooden boxes or flats; fill to one-third their depth with fine broken cinders or broken pots, and over this place a thin layer of moss, chopped straw or rough siftings from the soil to keep the dirt from clogging the drainage; then fill up to within one-half or three-quarter inches of the brim with fine, free, mellow soil, with thin layer of very fine soil over it. Tamp the pot on table to firm the soil a little. Now sow the seed evenly, and shake a very little fine soil over it; press it all over with the back of the hand or a board, then water gently through a fine spray or rose; this done strew a little fine earth over all. In the case of very fine seeds covering only enough to hide the seed is plenty, but *Pinks*, *Gaillardias* and other rougher seeded sorts one-eighth inch deep of covering may be given. Keep the seed pots in a warm, sunny window, but shaded with a thin curtain from drying sunshine. A sheet of paper laid over the pot at this time prevents over-drying, but when the sunshine passes, take off the paper, else damp or mold will set in. A pane of glass laid over the pots or flats until germination appears is an excellent preservative of the moisture in the soil, but always tilt it up at one side one-eighth of an inch or more. When

the seedlings come up, give them more light by keeping them close to the glass, and before they overcrowd one another or become spindly transplant them into other pots or flats, three-quarters or one inch apart from one another, according to their size and strength. As the weather gets mild, by placing the seedlings in a cool and airier place, as on the porch or a sheltered place out of doors, they become fairly inured to the open weather, and when they are large enough for final transplanting set them out in the garden.

The amateur may have more success and less bother growing hardy perennials from seeds sown in the open ground than in any other way. Prepare a bed in a nice, warm, sheltered spot in the garden, preferably not very sunny; let the surface of the bed be raised four or five inches above the general level, and the soil be a mellow, free, fine earth on the surface. Draw shallow rows across the surface of the bed, three to four inches apart, and here sow the seed, keeping the varieties of one kind or nature as much together as practicable; cover the seeds thinly, press the whole surface gently, water moderately, then dust a little fine, loose soil over all. If the weather is sunny or windy, shade with papers or a few branches, but remove these in the evening. When the seedlings come up thin them out to stiffen those that are left, and when they are two or three inches high, they are fit for transplanting into permanent quarters. All this should be done in early spring, say March, April or May, or in warmer localities a month earlier.

Again, in July or August perennials are very easily raised out of doors, and much in the same way as above. Transplant these seedlings in late August or early September to get well-rooted stocky plants before winter sets in.

The *Dahlia* Bulbs I purchased from you turned out fine. The flowers were admired by everybody who saw them. Yours truly,

SARAH F. MARTIN, Kensington Road, Ten Hills, Md.



## M. & S. SUPERFINE DAHLIA ROOTS.

**Culture.** One of the most important points in the cultivation of the Dahlia is to select a well-drained position where they will receive the full benefit of the sun during the greater part of the day.

As to soil, they are not at all particular, excepting that in the case of a stiff clay some loose material should be added, such as coarse



Assortment of M. & S. Superfine Dahlias.

sand, old mortar, or anything which will make the soil loose and friable. The soil must be well dug, and a liberal amount of suitable plant food incorporated. For this nothing is more satisfactory than well-decayed stable manure; but where this cannot be conveniently procured pure bonemeal, sheep manure, or any chemical fertilizer rich in ammonia and phosphoric acid will answer.

The planting of dormant roots in the latitude of Baltimore may be done at any time between April 25th and June 15th, the earlier planting being preferable. Plants must not be set out until all danger of frost is over, say May 10th.

Dahlias should be planted where they can be watered during the blooming period.

After May 1st we can furnish started Dahlia Plants at the same price as roots.

## CHOICE DECORATIVE DAHLIAS.

**Celeste Meyer** (for description see Pink Special Page). Price, 25c. each; \$2.75 per doz.

**Eleanor Stisser** (for description see Pink Special Page). Price, 25c. each; \$2.75 per doz.

**Baron Schroeder.** Rich purple; highly recommended. 10c. each; \$1.00 doz.

**Clifford W. Bruton.** A fine bright yellow. 10c. each; \$1.00 doz.

**Delice.** Beautiful glowing, rosy Pink, good stems, fine for cutting. 15c. each; \$1.50 doz.

**Grand Duke Alexis.** Ivory white, sometimes showing lavender centre. 15c. each; \$1.50 doz.

**Golden West.** The finest decorative yellow Dahlia in cultivation. 25c. each; \$2.75 doz.

**Henry Patrick.** A beautiful pure white. 15c. each; \$1.50 doz.

**Jack Rose.** Brilliant crimson-red, similar in shade to the popular "Jack" Rose, which suggested its name; perfect for garden decoration or for cutting. 10c. each; \$1.00 doz.

**Jeanne Charnet.** A splendid cut flower variety of a pleasing shade of violet-rose on a lighter ground. 15c. each; \$1.50 doz.

**John Elitch.** Beautiful rich cardinal red. 15c. each; \$1.50 doz.

**Lyndhurst.** Brilliant cardinal-red. A fine cut flower. 10c. each; \$1.00 doz.

**Mme. Van den Daele.** A charming soft rose with deeper markings, shading to white in the centre. 15c. each; \$1.50 doz.

**Mrs. Hartong.** Golden-bronze; very fine. 10c. each; \$1.00 doz.

**Matchless.** Deep maroon with black shadings. 10c. each; \$1.00 doz.

**Mrs. Roosevelt.** Delicate Silver Rose. 15c. each; \$1.50 doz.

**Mme. A. Lumier.** Pale White, Violet Red Points. 15c. each; \$1.50 doz.

**Sylvia.** Soft, pleasing mauve-pink, gradually changing to white in the centre. A fine cut flower. 10c. each; \$1.00 doz.

**Souv. de Gus Douzon.** Immense flowers; a beautiful red, tall and grand bloomer. 15c. each; \$1.50 doz.

Our selection of the above named \$1.00 per dozen.

## FANCY CACTUS DAHLIAS.

**Aurora.** A beautiful reddish-apricot suffused with flesh-pink, shading lighter to the tips. 15c. each; \$1.50 doz.

**Aegir.** Rich, bright crimson scarlet. 15c. each; \$1.50 doz.

**Blanche Keith.** Grand flower. Yellow, free bloomer. 15c. each; \$1.00 doz.

**Brittania.** Deep Salmon. 15c. each; \$1.50 doz.

**Countess of Lonsdale.** A peculiar but pleasing blending of salmon-pink and amber, a color difficult to describe. Flowers freely under all conditions. 10c. each; \$1.00 doz.

**Cockatoo.** Lemon yellow, white centre. 15c. each; \$1.50 doz.

**Else.** A charming variety, with a combination of delicate colors. The base of the petals is of butter-cup yellow, gradually passing to amber, finished with a tip of tyrian-rose. 15c. each; \$1.50 doz.

**Flora.** An ideal white Cactus Dahlia. A large, heavy flower, produced on stout, stiff stems, makes it valuable for cutting. 10c. each; \$1.00 doz.

**Floradora.** Remarkably free-flowering, bright blood-red. 10c. each; \$1.00 doz.

**General Buller.** Dark velvet maroon, white tips. 10c. each; \$1.00 doz.

**Gabriel.** Creamy-white, edged with vermillion. 10c. each; \$1.00 doz.

**Hunold.** Terra cotta red. 15c. each; \$1.50 doz.

**Kriemhilde.** A most popular cut-flower variety; perfect flowers on long stems; color a brilliant pink, gradually shading to white at the centre. 15c. each; \$1.50 per doz.

**Master Carl.** Large, clear orange-salmon. 15c. each; \$1.50 doz.

**Mrs. H. J. Jones.** Bright scarlet, tipped white. 15c. each; \$1.50 doz.

**Progenitor.** Bright carmine; each petal being furcated on the end like a staghorn fern. 10c. each; \$1.00 doz.

**Standard Bearer.** Rich, fiery-scarlet; free and of perfect form. 10c. each; \$1.00 doz.

**Strahlen Krone.** Cardinal red. 10c. each; \$1.00 doz.

**Thos. Parkins.** Bright Terra Cotta. 15c. each; \$1.50 doz.

**Volker.** Clear lemon-yellow. 10c. each; \$1.00 doz.

**Wunderkind.** Luminous canary-yellow shading to white, suffused with flesh at the edges; free bloomer. 15c. each; \$1.50 doz.

**Winsome.** Pure white; twisted petals. 15c. each; \$1.50 per doz.

Our selections mixed of the above named, \$1.00 per dozen.

## FANCY VARIETIES.

**Fern-Leaf Beauty.** White, striped deep crimson; fern-like foliage; dec. type. 10c. each; \$1.00 doz.

**Lucy Fawcett.** Canary yellow, striped wine, show type. 10c. each; \$1.00 doz.

**Le Grand Manitou.** White ground color, prettily spotted, striped and blotched with deep reddish violet; dec. type. 25c. each; \$2.75 doz.

**Maid of Kent.** Cherry red, tipped and blotched white; dec. type. 10c. each; \$1.00 doz.

**Progress.** Bright, rosy like, penciled and spotted crimson; show type. 10c. each; \$1.00 doz.

**Prof. Mansfield.** Rich yellow, clear white, tips rosy red; dec. type. 15c. each; \$1.50 doz.

### POMPON DAHLIA.

**Little Helen.** The finest pure white. When in bloom the entire plant is a mass of flowers. 10c. each; \$1.00 doz.

### PAEONY FLOWERING DAHLIAS.

**Queen Wilhelmina.** Pure White; splendid form. 15c. each; \$1.50 doz.

**Queen Emma.** Rose; beautiful, distinct flower. 15c. each; \$1.50 doz.

### NEW CENTURY SINGLE DAHLIAS.

**Twentieth Century.** Early in the season an intense rosy-crimson, shading gradually to almost white on the edges and a light halo around the disc. As the season advances the flowers become lighter, changing to almost pure white, suffused with soft pink. 15c. each; \$1.50 doz.

**Crimson Century.** Rich, deep velvet-crimson, shaded maroon, with rose halo around a yellow disc. 15c. each; \$1.50 doz.

**Fringed Century.** Intense rosy-crimson with lighter markings, fringed or cleft petals. 15c. each; \$1.50 doz.

**Pink Century.** Delicate soft pink. 15c. each; \$1.50 doz.

**White Century.** Pure white, with large, heavy, overlapping petals of good texture. 15c. each; \$1.50 doz.

**Sensation.** A gorgeous flower, brilliant vermillion red; heavily tipped and striped with white. No two flowers alike on a bush. 10c. each; \$1.00 doz.

**Big Chief.** Brilliant cherry red, margined rich, velvet maroon. 15c. each; \$1.50 doz.

### COLLARETTE DAHLIA.

**President Viger.** Rich, red, white collarette. 15c. each; \$1.50 doz.



**A NEW DEPARTURE.** Box collections of Dahlias put up in sets of twelve assorted varieties, unlabeled, embracing a wide range of colors—red, white, pink, yellow, variegated, etc.—no two alike. This collection is put up in a telescope box and is sent through Parcel Post to any parts of the United States for \$1.00.

### JAPANESE FERN BALLS.

A very attractive novelty; in dormant state, seven to nine inch bulbs. 35c. each.

I planted some of your "M. & S." Sweet Pea Mixture last October and I have never had such beautiful flowers before.

Yours truly,

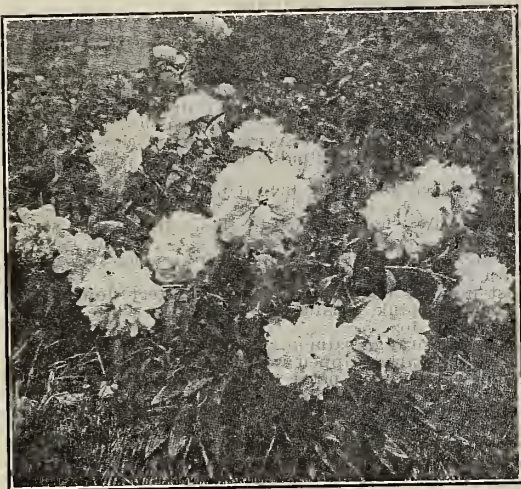
HARRY M. REVER, 2202 Boston Street, Baltimore, Md.



**M. & S. CHOICE PAEONIES.**

If wanted by mail, add 5c. each for postage.

Double Paeonies are too well known to require description. Their present popularity is due to the great improvement in them in recent years, their easy culture, the handsome appearance of the plant, and the brilliant and striking effect of their massive, finely formed and richly colored flowers. The attention given to them, in Europe and America, has resulted in the production of many notably fine new varieties. Among hardy, herbaceous perennials the Chinese Paeonies rank about first for lawn or flower-border, or shrubbery decoration. They are all hardy.



**Paeony Chinenses.** (Duchess de Nemours.) Pure white, profuse bloomer. 25c. each; \$2.75 doz.

**Paeony Chinenses.** (Jeanne d'Arc.) Fine rose, centre creamy white and sulphur. 25c. each; \$2.75 doz.

**Paeony Tenuifolia.** (Rosea.) Beautiful pink. 25c. each; \$2.75 doz.

**Paeony Tenuifolia.** (Rubra.) Bright red. 25c. each; \$2.75 doz.

**MADERIA, OR MEXICAN VINE (HARDY).**

The tubers, if planted deep and protected during the winter, are hardy. The leaf is very deep green, and grows very dense; the flower is small, white in color and fragrant. This very rapid growing vine should be planted wherever a dense, quick shade is desired. Roots, 5c. each; 30c. doz.

**DOUBLE PEARL TUBEROSES.**

**Culture.** One of the most fragrant and popular of the summer-flowering bulbs. May be started early in hotbeds or pots, or planted in open ground after first of May. The bulbs we offer are not to be compared with cheap ones—ours are sure bloomers. Soaking them over night in lukewarm water promotes rapid growth. Two for 5c.; doz., 25c.; 100, \$1.25.



Elephant Ear.



Double Pearl Tuberose.

**CALADIUM ESCULENTIUM (Elephant's Ear).**

As centre pieces of specimen in flower beds Caladiums answer well. They also make an excellent edging for a hardy bed of grass, for Ricinus and other tall growing plants. When planted in a bed alone, a border of Scarlet Sage removes the one color effect and makes a beautiful contrast. Do not plant Caladiums outdoors until after May 1st, but to get them in early growth they may be started indoors.

**Monster Bulbs.** 15c. each; \$1.50 doz.

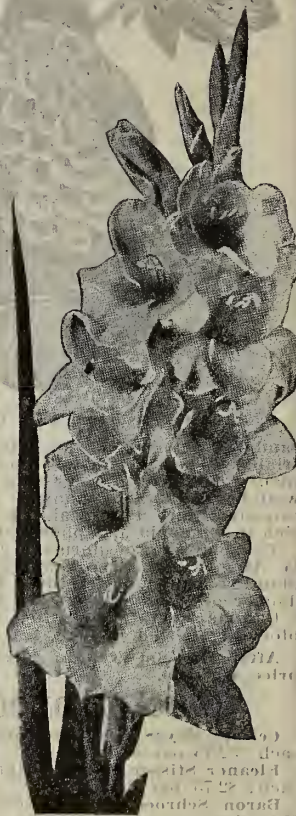
**Mammoth Bulbs.** 10c. each; \$1.00 doz.

**M. & S. SUPERFINE GLADIOLUS.**

**Cultural Hints on Gladiolus.** A sunny location is very essential. The soil should be one that has natural drainage, and should be thoroughly enriched with well-rotted manure. Start to set the bulbs out about April 1st. To get best effects, have about 6 inches of space between them. They usually flower 90 days after planting. In order to have a succession of flowers until frost, make a planting about every 10 days, up to July 1st. It is advisable to purchase the bulbs at one time, as they are frequently not obtainable later in the season. While growing, bulbs should be thoroughly cultivated, and should be given a top-dressing of Sheep Manure and Bone Meal. As the bulbs begin to flower, plants should be supported with a suitable stake, to prevent them from breaking off.



M. & S. Choice Mixed Gladiolus.



Gladiolus "America."

**M. & S. Choice Mixed Gladiolus.** Composed of all named varieties in gorgeous, blending. Doz., 35c.; 100, \$1.75.

**M. & S. NAMED GLADIOLUS.**

**America.** A beautiful flesh pink, tinged with lavender. A variety of robust growth and easy cultivation. The flowers are very large and expanded, many being open at one time. 5c. each; 50c. doz.; 100, \$3.00.

**Augusta.** A lovely variety for the garden, producing graceful, slender stems, which are dressed entirely with open flowers of white, slightly tinged and striped pink. 5c. each; 50c. doz.; 100, \$3.00.

**Brenchleyensis.** Splendid for garden effects, as all the flowers appear at one time. Vermilion scarlet color, ideal for planting in front of shrubbery. 3c. each; 25c. doz.; 100, \$1.75.

**Hollandia.** One of the most exquisitely colored and formed gladiolus in our list. In addition, the size of bloom is not exceeded by any other. The color is a delicately flushed salmon-orange. 5c. each; 50c. doz.; 100, \$3.00.

**Mrs. Francis King.** A most beautiful flame pink. Immense flowers on a spike growing 4 feet high, with from 18 to 20 flowers, 6 to 8 being open at one time. Many of the bulbs produce two and three flower-spikes; a gem among gladiolus. 5c. each; 50c. doz.; 100, \$3.00.

I purchased some Canna Roots from you last spring and I never, in all my life, have had such beautiful flowers. They were admired by everybody who saw them.

Yours truly,

H. M. GRESHAM, Tappahannock, Va.



**M. & S. SUPERFINE CANNA BULBS.**

In almost every private garden, in all public parks and in most of the large cemeteries, Cannas are used with the greatest effect to adorn the surroundings. It is difficult to convey in language an idea of the beauty of the Canna plant and flower.

**Culture.** Canna tubers should not be put into the ground until the soil has become warm. They commence blooming in June and continue until late in September. Every shoot bears a flower and these shoots are being constantly produced throughout the blooming season.

**Note.** Our prices are for dormant roots in strong divisions of two and three eyes. After May 1st our stock of roots is usually sold, at which time we can fill orders with well-developed plants of any variety on this page at 5c. each; 50c. doz.; 100.



M. &amp; S. Superfine Cannas.

\$4.50 (except where noted). Price of roots at bottom of list.

**King Humbert.** Truly a king among the Cannas, its majestic growth is doubly enhanced by a massive coppery scarlet flower and the broad deep bronze foliage. It grows 4 feet high and is splendid either as a centre, edged with a dwarf yellow canna or vice versa, placing it around a centre of a tall yellow variety. Roots, 7c. each; 75c. doz.; 100, \$6.00. Plants, 10c. each; 90c. doz.

**Charles Henderson.** Grows 4 feet high; rich crimson; green foliage.

**Florence Vaughan.** Grows 5 feet high; green foliage; rich golden yellow, dotted red.

**Austria.** Pure canary yellow, reddish dots in centre, 3½ feet high, green foliage.

**Italy.** Yellow, Blotched red, 5 feet high, green foliage.

**Black Beauty.** Deep crimson, bronze foliage, 6 feet high.

**Mme. Crozy.** Bright scarlet, golden border, 3½ feet high, green foliage.

**Mme. Berat.** The nearest approach to a pink; is a first-class bedder; 4 feet; green foliage.

**Mont Blanc.** The only pure white canna; large flowers; 3½ feet; green foliage.

**Richard Wallace.** Very large, 4 feet high, green foliage, yellow flowers.



King Humbert Canna.

**Queen Charlotte.** Makes a gorgeous display, when planted in masses; color a wide band of yellow, bordering a centre of scarlet; 3 feet high, green foliage.

**Egandale.** Bronze foliage; currant red flower; 4 feet high.

**Venus.** One of the softest and most delicate varieties ever introduced; flowers fair size, soft, rosy pink, with border of creamy yellow; bright green foliage; 3½ feet.

Prices of the above or mixed, 5c. each; 50c. doz.

Mr. J. O. Stafford, Towson, Md., writes under date of July 10th, 1913: "The M. & S. Gilt Edge Sweet Pea Mixture Seed which you sent me produced the most beautiful crop of Sweet Peas that I and a great many of my neighbors had ever seen."

Mr. A. H. Franklin, Manager of the new Maryland Country Club, Park Heights Avenue, gave us the following compliment: The Rose Bushes the club purchased of you have been the admiration of everybody that saw them. Some of the leading florists wanted to know where they came from.

**BEGONIAS—TUBEROUS ROOTED.**

There hardly is a single garden in which there are not semi or entirely shaded spots where the average flower will not grow; such places are ideal for this flower; yet it will make a dazzling show in the open. Enormous wax-like flowers appear uninterrupted from June till frost. The bright flowers contrast well with the deep-colored foliage. The bulbs must be lifted in the fall. If you have never grown them, try them this year. Start your bulbs in March and have flowers in June. Plant bulbs outdoors not before May 1st. Splendid pot plants for the house or for bedding. For bedding they should be started in hotbed in March and April. The hollow end of the bulb should be uppermost and but slightly covered. Water sparingly until the plants are growing.



Single Plant of Tuberous Rooted Begonia.

**SINGLE AND DOUBLE VARIETIES.**

	Each.	Doz.
Crimson	6c.	60c.
Orange	6c.	60c.
Pink	6c.	60c.
White	6c.	60c.
Yellow	6c.	60c.
Mixed	6c.	60c.

**DOUBLE VARIETIES.**

In separate colors as above	7c.	75c.
Mixed, all colors	6c.	60c.

**Nursery and Plant Department.**

We are pleased at all times to submit plans and suggestions for laying out hardy plant borders, evergreens, orchards, etc. We are not, however, prepared to undertake the planting thereof, but can recommend good reliable parties for this. **CORRESPONDENCE SOLICITED.**

**ROSES—Perpetual, Tea and Climbing.**

**Special Directions for Planting Roses.** Open a good space in the soil and spread roots; never cramp them into a small hole. Do not let manure come in contact with roots, but place it underneath and a layer of soil on top. If the rose is a bush plant, set it so deep that only branches are visible above ground, and never the main stem, but too deep is as bad as too shallow; 2 to 4 inches of the lower branches may be under the surface, but no more. If the plant is a budded or grafted rose, be sure that the bud or graft is fully 3 inches below the surface. Prune in spring only, when life is just apparent, and remove what might appear to be surplus wood. The strongest growth should be cut back to within 6 inches above ground; the weaker growth to 4 inches. All soil above the roots should be well pressed down. Feed your roses with "Ground Bone" and "Pulverized Sheep Manure" or "Poudrette." Mulch the ground during summer. The best remedy against the rose bug is Thauatus; this positively destroys them and does not injure the flower or blossom. See index page.

**TEA, OR MONTHLY BLOOMING ROSES.**

**Killarney.** This is, perhaps, the best known of Dickson's famous Irish Hybrid-Tea Roses, and is one of the most popular of our garden Roses, and also one of the leading varieties for winter cut flowers. It is perfectly hardy; in growth it is strong and robust, and as free-flowering as any Rose we know. In color it is a sparkling brilliant pink; the blooms are large, the buds long and pointed, the petals very large and of great substance, and just as handsome in the full-bloom flower as in the bud form.

**White Killarney.** A pure white sport of the popular Killarney Rose; identical in every way with its parent, excepting in color, which is a pure white.

(Roses continued on next page.)



**My Maryland.** One of the finest American introductions. Very free-flowering, every shoot bearing one or more flowers, which are double, of perfect form, of a bright but tender salmon-pink, which lightens up beautifully as the flower expands; delightfully fragrant.



Helen Gould.

very free in growth and a continuous bloomer.

**Molly Sharman Crawford.** On opening, the flower is cream colored, which, as the bloom expands, turns to a pure white. We regard it as one of the finest white Tea Roses.

All of these varieties have given good results for outdoor culture. Price, each, 50c.; \$5.00 per doz.

#### BABY RAMBLER AND POLYANTHA ROSES.

**Anchen Muller (Pink Baby Rambler).** Large clusters of brilliant rose flowers; the edges of the petals are wavy, giving it a peculiarly graceful form.

**Clothilde Soupert (Polyantha Rose).** An old favorite, producing in clusters beautiful perfectly double flowers of a French-white, deepening to rosy-blush in the centre; very free-flowering and deservedly popular.

**Katherina Zeimet (White Baby Rambler).** Pure white flowers, showing the yellow stamens very prettily. A free and continuous bloomer.

**Mme. Norbert Levavasseur (Crimson Baby Rambler).** Similar in color to the climbing Crimson Rambler. One of the most popular. All the above 50c. each, 2-year-old plants.

### CLIMBING ROSES.



Silver Moon Climbing Rose.

**Silver Moon.** Flowers very large, four and one-half inches and over in diameter, pure white in color, petals of great substance, beautifully cupped, forming a Clematis-like flower. The large bunch of yellow stamens in the centre adds to its attractiveness. These flowers are borne on strong stems 12 to 18 inches long, and are delicately scented. The plant is a strong grower, with large, glossy bronze-green foliage. Strong two-year-old plants, 75c. each.

**Crimson Rambler.** Too well known to require description. Everyone is familiar with its large clusters of crimson flowers. 50c. each.

**Dorothy Perkins.** Soft shell-pink, flowering profusely in large clusters; very fragrant and lasting; a grand Rose in every way. 50c. each.

**Aviator Bleriot.** (The New Yellow Rambler). We have discarded the old yellow Rambler in favor of this new variety, in which we have a strong-growing plant with beautiful glossy, insect and disease-proof foliage, and bearing large clusters of medium-sized full double flowers of a saffron yellow, deepening to an almost golden-yellow at the centre. Strong two-year-old plants, 75c. each.

**White Dorothy.** Among Rambler Roses none has justly gained greater popularity than the beau-

tiful pink Dorothy Perkins. The White Dorothy is a duplicate except in color. 50c. each.

**Hiawatha.** There is no other Rose so brilliant as Hiawatha. It must be seen to be appreciated. Its flowers are about one and one-half inches across, and produced in long, pendulous sprays, with frequently from 40 to 50 flowers on a spray. In color it is brilliant, ruby-carmine, with a clear white eye and a mass of golden stamens—a glowing combination of colors, which can be seen at a great distance. The plant is of strong, vigorous growth, with bright green, glossy foliage, which is retained until late in fall. 75c. each.

**Climbing American Beauty.** Flowers are very full, double, often 5 inches across and of a rosy crimson; a splendid pillar rose. Each, 75c.

### HYBRID PERPETUAL ROSES.

**General Jacqueminot.** (Jack Rose). Bright red.

**Baroness Rothschild.** Beautiful light pink.

**Ulrich Bruner.** Cherry-red; good bloomer.

**Paul Neyron.** Clear shining pink, very fine.

**FRAU KARL DRUSCHKI.** This is the ideal hardy white Rose, pure in color, perfect in form; strong grower and remarkably free-flowering; superb in every way.

**Magna Charta.** Bright pink, suffused with carmine; a beautiful Rose, and a strong, vigorous grower; one of the best.

**Gloire Lyonnaise.** White, tinted with yellow; large, full and of good shape; very distinct and pleasing.

Two-year old plants, each, 50c.; \$5.00 doz.

### M. & S. EARLY-FLOWERING CHRYSANTHEMUM PLANTS.

**Crimson Marie Masse.** A crimson sport.

**Ralph Curtis.** Creamy - white sport of M. Masse.

**Horace Martin.** Deep-yellow sport of M. Masse.

**Mlle. Marie Masse.** Beautiful lilac mauve.

**Bobby Burns.** A rosy cerise.

**White Quintus.** Pure white.

**M. Cassimer Perrier.** White, tinted pink.

**Louise Lemaire.** Beautiful golden-yellow.

All of these Early Flowering Varieties have given good results for outdoor culture. Ready for delivery after May 1st. Each, 10c.; 3 for 25c.; doz., \$1.00.



### CHOICE BEDDING PLANTS.

Ready April 15th to June 1st. Special price in quantities.

Verbenas, Nasturtiums, dwarf and tall; Alyssum, Coleus, Lobelia, Cosmos, Ornamental Grasses, Alternanthera, Ageratum, blue and white; Lantana, Mignonette, Wandering Jew, Parlor Ivy, Ivy and Rose Geraniums, Pansies, Cigar Plant, Dusty Miller, Scarlet Sage, Bonfire Dwarf, Splendeus, tall; Abutilons, dwarf border plant; Asters and many more. 5c. each; 50c. doz.

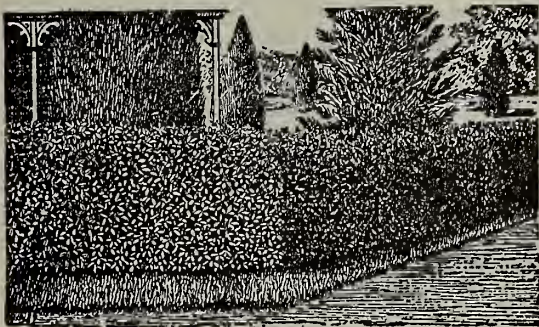
**Geraniums.** All popular varieties from 4-inch pots, \$1.00 doz.; 3-inch pots, 75c. doz.

**Petunias, Heliotrope, Fuchsias, Snapdragon, Sultana, Moon Vines, etc.,** 10c. each; \$1.00 per doz.



## HEDGE PLANTS.

### California Privet.

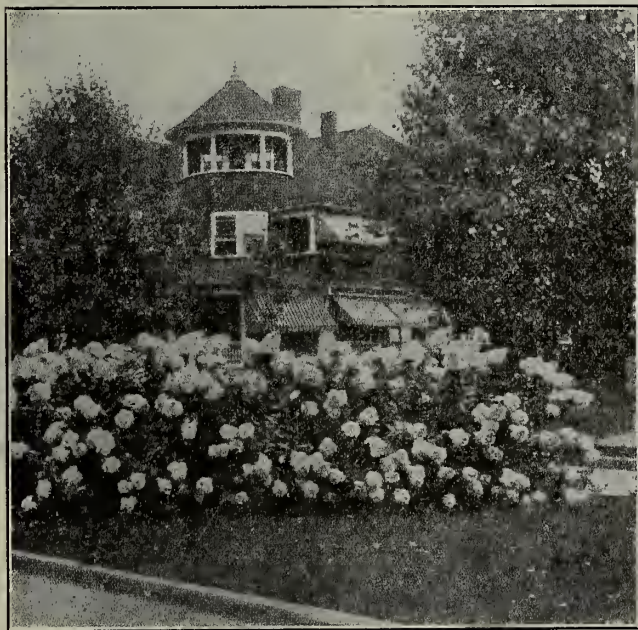


Hedge of California Privet.

is no further expense after planted, and it adds dignity and charm to any home, and increases the value of real estate. Being absolutely hardy, it increases in its beauty with each successive year, and the possibilities are amply displayed at some of the model suburban home grounds in and around Baltimore. Privet is somewhat of an Evergreen nature, and looks attractive until real winter sets in. To establish a good hedge, the proper foundation is necessary. The trench should be thoroughly manured, and receive an additional liberal application of Pure Bone Meal and both worked in with a spade. Plants should be set 12 inches apart in double rows, in zig-zag fashion, so that the plants are diagonally opposite each other; this practically places them 6 inches apart, which is desirable to get a quick, dense growth. Plant from October 1st to November 15th, and from March 15th to May 15th.

**California Privet.** Two years, 3 to 4 ft., \$5.00 per 100; \$37.50 per 1000. Two years, 2 to 3 ft., \$4.00 per 100; \$32.50 per 1000. Two years, 1½ to 2 ft., \$3.50 per 100; \$25.00 per 1000.

## HARDY DECORATIVE SHRUBBERY.



Hydrangea Paniculata Grandiflora.

**Paniculata Grandiflora.** The large panicles of white flowers are at their best during August; later they take on a reddish cast. These plants look fine used as single specimens on the lawn or grouped in large beds. Strong plants, 50c. each; per doz., \$5.00.

**Arborescens Grandiflora Alba.** (Snowball Hydrangea). The snow-white blooms are of the largest size. It comes into bloom early in June, lasting until late August. Is more hardy than any other sorts and especially suited to plant in shaded places. 50c. each; \$5.00 doz.

**Hydrangea.** Tree, white turning red. \$1.00.

**Hydrangea Hortensia.** These stately plants make ideal showy effects, especially desirable for seashore. If protected in the winter they will live outdoors for years.

**Otaska.** Rich pink. Strong plants, 50c. each; dozen, \$5.00. Large plants, \$1.00 each.

Exceedingly beautiful; leaves deep green, bright and very glossy; easily transplanted. The plants we supply have been grown under our own supervision, and only selected stock is sent out. It is unlike a fence which needs painting, repairing, etc., and never looks well. This hedge

This class of Hydrangeas (Otaska) can be changed to blue by mixing into the soil around the plant a few handfuls of soot for iron filings. If this is not obtainable some lump alum broken into small pieces can be substituted, about one-half pound to each plant.

## TRITOMA.

(Flame Flower, Torch Lily or Red Hot Poker Plant.)

In midsummer and autumn, when other flowers are on the wane, the Tritoma looms up and furnishes a wealth of bloom till killing frosts check it. A vase of these arranged with autumn leaves or ornamental grasses make a handsome effect. The roots are considered hardy, though we, however, recommend that they be lifted in the autumn and placed in a box of soil or sand, preferably in the cellar. There are a number of varieties in commerce, but the sort mentioned below seems to be demanded most and fill every need.

**Pfitzeri.** Blooms from August till October; rich orange scarlet. See back cover page for colored illustration.

We are now taking orders for next May delivery for good, strong plants, 25c. each.

**The Everblooming Butterfly Bush.** Semi herbaceous shrub. Special merits; very hardy, bloom the first season, flowers from early summer 'till frost, rich striking color, splendid for cutting, very free flowering, will thrive anywhere. See back cover for colored illustration, and Special Pink Page for description.



Tritoma, or Red Hot Poker.

- Almond. Red or white flowering. 75c.
- Althea. White, purple, red. 50c.
- Barberry. Very useful as hedge. 50c.
- Bridal Wreath. White flowers. 50c.
- Dutzia. Pink or white flowering. 50c.
- Forsythia. Yellow, very early. 50c.
- Hydrangea Tree. White turning red. \$1.00.
- Lilac. Purple or white flowering. 50c.
- Magnolia. White and purple flowering. \$2.50.
- Mock Orange. Golden leaved. 50c.
- Pyrus Japonicus. Japan Quince, scarlet, 50c.
- Spiraea. Crimson, white or pink flowering. 50c.
- Snowball. Japanese and common. 50c.
- Weigela. White, crimson, pink. 50c.

## EVERGREEN SHRUBS AND TREES.

**Mahonia Aquifolia.** Holly like leaves, very handsome yellow flowers in May; especially good for shady places; 18 to 24 inches. 50c. each; \$5.00 per dozen.

**Rhododendrons.** One of the most beautiful plants in cultivation; either as a single specimen or in masses; we have an assortment of colors; 18 to 24 inches, \$1.50 each; \$15.00 per dozen.

**YUCCA (Adam's Needle).** This plant sets off to best advantage if placed as individual specimens either on the lawn or in the shrubbery border. The foliage is of an evergreen nature, is slender and pointed. The tall flower-spikes rise 4 to 5 feet above the plant and are decked with cream white bell-shaped drooping flowers in July and August. Truly a majestic plant, and especially fine for producing tropical effects. 50c. each; \$5.00 dozen.



Evergreen

EVERGREENS.  
ARBORVITAE,  
FIR,  
JUNIPER,  
PINE,  
RETINOSPORA,  
SPRUCE,  
YEW,  
BOX WOOD,

FROM  
\$1.00 UP  
AS TO SIZE AND  
VARIETY.

## HARDY CLIMBING VINES.

**Clematis.** Large flowering hybrid; purple, white or red. 50c. each.  
**Clematis Paniculata.** Small; white flowering; very fragrant; strong grower. Most satisfactory Clematis that grows. Large plants, 35c. each.

**Wisteria.** White and purple. Two years old. 50c. each.

**Trumpet Vine.** Two years. 50c. each.

**Honeysuckle.** Popular climber. 25c.

(Hardy Climbing Vines continued on next page.)

Gentlemen: The Butterfly Bush I bought of you is 5 feet high and 5 feet in diameter; flowers 8 to 12 inches long. There were 175 flowers on one bush which has been blooming since June 1st.  
Yours truly,  
CHARLES W. ARMIGER, 3019 Brighton Street, Walbrook, Md.  
September 22, 1914.



## ORNAMENTAL GRASSES—Strong Clumps.

Pampas Grass. Enallia. Striped lengthwise. 35c. each; \$3.00 doz.  
Pampas Grass. Zebrina. Striped crosswise. 35c. each; \$3.00 doz.

## HARDY PERENNIAL PLANTS—Field Clumps.

Gaillardia. Blanket flower; very beautiful. 15c. each; \$1.50 per doz.  
Delphinium. Hardy Larkspur, most stately flower, does well anywhere. Dark blue, light blue blue white center, white and Kelway's mixed. 15c. each; \$1.50 per doz.  
Hardy Aster. All colors. 25c. each; \$2.50 per doz.  
Gonolobus. Culture—Like Gladiolus, but hardy. They resemble somewhat the gladiolus, but in a miniature form. The flower-spikes are very brilliant and produced in quantity. Height, 2 feet. They should be planted in clumps of 50 or 100 bulbs. Finest miniature—embracing all colors of the rainbow. 25c. doz.; \$1.75 per 100.  
Aquilifera. Columbine. All colors. 15c. each; \$1.50 per doz.  
Sweet Williams. 15c. each; \$1.50 per dozen.  
Hardy Pinks. Dianthus. 15c. each; \$1.50 per dozen.  
Hardy Phlox. Different colors. 15c. each; \$1.50 per dozen.  
Double and Single Hollyhocks. 15c. each; \$1.50 per dozen.  
Stocks (Cut and Come Again). 15c. each; \$1.50 per dozen.  
Digitalis. Foxglove. 15c. each; \$1.50 per dozen.  
Golden Glow. 25c. strong clump; \$2.50 dozen.  
Shasta Daisy. Alaska pure white yellow centre. 25c. each; \$2.50 per dozen.  
Other varieties of Hardy Perennials can be furnished promptly at reasonable prices for reliable stock.

## FRUIT TREES AND BERRIES.

### CHERRIES.

Black Tartarian Cherry. Very large; purplish black; half tender; flavor mild and pleasant. Tree a remarkably vigorous, erect and beautiful grower, and an immense bearer. Ripens last of June and beginning of July. One of the most popular varieties in all parts of the country.  
Governor Wood, yellow. Florence, red. English Marlin, red, tart, and other leading varieties. 50c. each.

### APPLES.

Baldwin. Large, roundish; deep bright red; very productive; handsome fruit. One of the most popular varieties in Northern States.

Ben Davis. Large, handsome, striped; productive; a late keeper. A profitable market sort.

Grimes' Golden (Grimes' Golden Pippin). Of the highest quality; deep golden yellow, aromatic, spicy and rich. Tree vigorous and productive.

Maiden's Blush. Rather large and smooth, evenly shaded red or bluish on a clear, pale yellow ground; with a pleasant sub-acid flavor.

Red Astrachan. Large, roundish, deep crimson, overspread with a thick bloom; juicy, rich, acid, very productive.

Rhode Island Greening. Large, greenish yellow; tender, juicy and rich, with rather an acid flavor; an abundant bearer.

Smokehouse. A popular old variety in Pennsylvania, where it originated. Roundish oblate; yellow, shaded and striped with bright red; best yellowish. A rather crooked grower, but productive.

Northern Spy. Large, roundish, slightly conical. Flesh white and tender, with a rich and delicious flavor. The tree should be kept open by pruning, so as to admit air and light freely.

Wine Sap. Medium size; dark red; of rich flavor, very productive; late.

Any of the above in 6 to 8 ft. trees, 50c. each; doz., \$5.00. We can also supply all other varieties, also Crab Apples.

## PEARS.

Bartlett. Large size, with a beautiful blush; buttery, very juicy; bears early and abundantly.

Flemish Beauty. Large, beautiful, juicy, melting; good bearer; one of the hardest and does well nearly everywhere.

Howell. Large, light, waxy yellow, with a fine, red cheek; handsome, rich; aromatic flavor. An early and profuse bearer.

Kieffer. While not of best quality, properly ripened it is a fair dessert fruit, and one of the very best for canning and preserving.

Lawrence. A good grower; very productive. Fruit medium, canary-yellow, sweet and excellent; a good keeper.

Le Conte. Very vigorous grower, with luxuriant foliage; fruit very large, greenish-yellow, smooth and handsome; juicy. Early.

Rosney. A large variety of rare merit; flesh fine grained and of superior flavor; skin a beautiful creamy yellow, with crimson blush, giving it a tempting appearance; ripening in September.

Warden-Seckel. A seedling of the Seckel. Equal in quality to its famous parent, which it much resembles in flavor, is equally as luscious, more juicy, while in size, color, form and appearance it is decidedly superior; hardy and an enormous bearer; fruit keeps well.

Extra Strong Trees, 5 to 7 feet high, 50c. each; per doz., \$5.00. We can also supply all other varieties.

## PEACHES.

Trees such as we furnish will often bear the year after they have been set out.

Crawford's Early. The best yellow peach for market; fruit large, oblong; skin yellow, with fine red cheek; flesh yellow, juicy; wonderfully productive.

Crawford's Late. Fruit of the largest size; skin greenish-yellow, with dull red cheek; flesh yellow; one of the finest late sorts.

Elberta. Large, yellow, with red cheek; flesh yellow; firm, juicy, of high quality. Exceedingly prolific, sure bearer and hardy. Is doing well in all peach sections north and south. One of the leading market varieties. Peaches Early Crawford.

Mountain Rose. The largest early peach. White, with red cheek; rich and very good; productive and reliable. Freestone.

Oldimond Free. Uniformly large; white, covered with bright red; one of the best.

Stump the World. Very large; skin white, with bright red cheek; flesh white, juicy and good.

Extra Strong Trees, 5 to 6 feet high, 40c. each; per doz., \$4.00. We can also supply all other varieties.

## PLUMS.

Abundance. The fruit is very large, showy, and beautiful. Amber, turning to a rich, bright cherry color. Ripens early in August.

Barbank. Medium to rather large, conical in form; orange-yellow, overlaid with red; flesh firm, meaty, yellow; from two to four weeks later than Abundance.

Hale. The plums are of the largest size, bright orange-yellow skin, mottled and nearly covered with vivid cherry-red.

Red June (Japan). Vigorous and early; fruit medium to large, deep vermilion red; very showy; flesh light lemon-yellow.

Sultan. Very large in size, deep purplish-crimson in color; flesh very firm, dark crimson shaded with pink.

Wickson. Fruit large, obconical, dark crimson-purple; flesh very firm, highly flavored; pit small. An excellent keeper. Ripens after Burbank.

Wild Goose. Large, rich, crimson; very productive and profitable.

Extra Strong Trees, 5 to 6 feet high, 50c. each; \$5.00 doz.

## CURRENTS.

Fay's Prolific. By odds the best red Currant we have. Large, wonderfully prolific and of good flavor. Has now been fruited here, and is simply grand. It far surpasses all other red varieties, and has fully sustained the broad claims which were made by the disseminator upon its introduction. The bush is a strong grower and comes into bearing early. Price, \$2.00 doz. All other popular varieties, \$2.00 doz.

Gooseberries. Popular varieties. \$2.00 doz.

Blackberries. Popular varieties. \$1.25 doz.

Raspberries. Popular varieties. \$1.25 doz.

Fay's Prolific Currant.



## STRAWBERRY PLANTS (Extra Strong Layers).

Ready from April 1st to May 15th, and from October 1st to November 15th.

**Early Varieties.** Abington, Chipman, Senator, Dunlap, Success.

**Mid-Season Varieties.** Auto, Hubach, Cardinal, Heritage, Nick Ohmer, President, William Beit, Marshall.

**Late Season Varieties.** Brandywine, Gandy, Glen, Mary, Norwood, New Home Superior, Sample, Sharpless, Steven's Late Champion, Haverland.

Price of any of the above 25c. doz.; 100, \$1.25; 1000, \$7.50.

**Pot-Grown Strawberry Plants.** Ready about August 1st. Of late this kind of plant has become very popular, and is almost exclusively employed for garden planting. The failures are few, and much care and labor are avoided. We grow the plants in pots, and when they are well established and ready to ship turn them out of the pots, preserving the balls of earth around the roots and wrapping them in paper. In this way, during the hottest weather in July, August and September, plants can be transported safely and transplanted satisfactorily. Plants set out in August and September will yield a crop next season. We can furnish Sharpless, Late Orem, Medium, Nick Ohmer, Early, and other popular varieties. 50c. per 100, \$5.00.

**Grape Vines.** Blue Concord, Green Niagara and Delaware Red. 2-year-old stocks. 40c. each; 3-year-old vines.

**QUINCES, APRICOTS and other Fruit Trees** can be furnished promptly at reasonable prices for Reliable Stock.

## SHADE TREES.

**Norway Maples.** 8-10 ft., \$1.25; 10-12 ft., \$1.50.

**Silver Maples.** 10-12 feet, \$1.00.

**Catalpa Bungei.** grafted, 6-8, \$2.00.

**Poplar, Carolina.** 10-12 ft., \$1.00.

**Poplar, Lombardy.** 8-10 ft., 75c.

**Texas Weeping Mulberries.** 5-6 ft., \$2.00.

**Weeping Willows.** 5-6 ft., 75c.

**Betula Alba or White Birch.** 8-10 ft., \$1.00.

**American Lindens.** 8-10 ft., \$1.00.

**Japanese Maple.** Blood Leaf, 2-3 ft., \$2.25.

**Cornus Rubra, or Red Dogwood.** 2-3 ft., \$1.50.

**Cornus Florida, or White Dogwood.** 3-4 ft., \$1.50.

**Oriental Plane.** 10-12 ft., \$1.00.

**American Elm.** 10-12 ft., \$1.00.

**Silver Tree.** 8-10 ft., \$1.00.

**Sycamore.** 10-12 ft., \$1.00.

Write for prices on larger quantities.



Silver Maple.

## M. &amp; S. PREPARED FIBRE COCOANUT SOIL.

Grow Your House Bulbs Without Soil, Drainage or Saucers.

The Best and Most Charming Way of Producing Spring Flowers for House and Table Decorations.

The wonderful success that has been achieved in growing bulbs, such as Roman Hyacinths, Dutch Hyacinths, Paper Whites, Tulips, Narcissus, etc., in this special fibre, using vases or crock or other receptacles without drainage, proves that it is not only a most charming and effective method of growing bulbs for those who have neither a garden, the conveniences of greenhouses, or frames, or have a difficulty in obtaining suitable soil, but that it is also one which we feel sure is being, and will be, much more extensively adopted in the future when it is fully realized what can be done in this way.

Highly recommended and valuable for wornout soils. Should be worked in with soil. For lawns, trees, and shrubbery. Also for house plants of all descriptions. It does not create or retain bugs or flies, and is clean and odorless. For mushrooms it is the missing link, a cover for the beds; holds just enough moisture, mix three-fourths "M. & S." Prepared Fibre Coconut with one-fourth loam and your plants will be the right color and of uniform size.

## PRICES:

Per quart.....	\$ 10	Peck.....	35
4 quarts.....	20	Bushe.....	1.00
100-pound bags.....		1.75	

## HEADQUARTERS FOR FERTILIZERS AND PLANT FOODS.

**Ober's Pure Raw Bone Meal.** (Guaranteed analysis—Phosphoric acid 21%, equivalent to bone phosphate of lime 48%, ammonia 4½%) Does not burn. For flowers, trees and top dressing. 6 lb., 25c.; 25 lb., \$1.00; 100 lb., \$2.25; 200 lb., \$4.00; ton, \$38.00.

**Ober's Pure Bone Meal.** (Guaranteed analysis—Phosphoric acid 22%, equivalent to bone phosphate of lime 50%, ammonia 3½%). Splendid agent for huddling up worn out soil, lawns, etc. 6 lb., 25c.; 25 lb., 75c.; 100 lb., \$2.00; 200 lb., \$3.75; ton, \$32.50.

**Ober's Dissolved Animal Bone and Potash.** (Guaranteed analysis—Ammonia 2½ to 3%, available phosphate acid 10 to 12%, potash 3 to 4%) Highly recommended for lawns and other grasses. 165-lb. bag, \$3.25; ton, \$30.00.

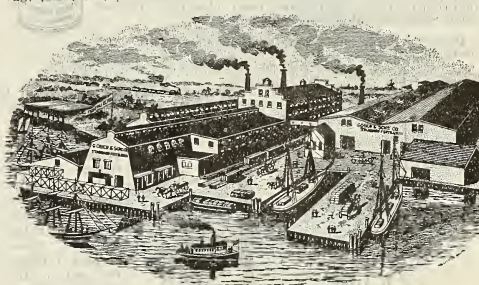
**Ober's "Climax" Truck Guano.** 5-7-3. Lands suitable for trucking are the highest priced lands in America, and profits must necessarily be large. Successful market gardeners realize that the liberal use of commercial fertilizers means a strong and healthy plants; for plants, like persons, are when poorly nourished, very subject to disease. Second, early and large crops, which result in more profit per acre. Third, sweet and tender fruit, the result of rapid growth and quick maturity. For foliage crops, such as cabbage, lettuce, spinach, etc., ammonia is needed; for woody plants and for fiber, phosphoric acid; for fruit, sugar and starch productions, potash. Our "Climax" Truck Guano meets all these conditions and is excellent for general use in market gardening. Ton, \$35.00; 165-lb. sack, \$3.75.

**Ober's "Peerless" Vegetable Compound.** 3-8-3. To be highly recommended for potatoes. 165-lb. bag, \$2.75; ton, \$28.50.

**Ober's Farmers' Standard Ammoniated Phosphate.** 2-9-2. A good all-round fertilizer. 165-lb. bag, \$2.50; ton, \$25.00.

**Ober's Harvest King Compound.** 2-9-3. A great favorite for general truckers. 165-lb. bag, \$2.65; ton, \$26.50.

**Ober's Farmers' Mixture.** 1-9-2. A general crop producer. 165-lb. bag, \$2.25; ton, \$22.00.



G. Ober & Sons Co. Mammoth Plant, where the Fertilizers we sell are made.

**Special Compound for Tobacco.** 3-8-3. Ton, \$28.50; \$2.75 per bag.

**Acid Phosphate, or South Carolina Rock.** 16 per cent. Bag, \$2.00; ton, \$15.00; 14 per cent., \$14.00 per ton.

**Muriate of Potash.**

**Kalmit.**

**Sulphate of Potash.** 90 per cent. Owing to war conditions, cannot quote; write or inquire for prices.

**Ground Tankage.** 8 to 9 per cent. Owing to war conditions, cannot quote; write or inquire for prices.

## M. &amp; S. NATURAL PLANT FOOD HUMUS.

The best for flowers, shrubbery, vegetables, lawns and Alfalfa clover inoculation, being the best Humus obtainable and containing the necessary Plant Food: Ammonia, Phosphates, Lime and Potash, in a soluble form. Being odorless and entirely sanitary it can be used indoors around potted plants. We can recommend a liberal use for humus of all kinds for fall planting, and it should be dug in well around all shrubbery in the fall, to give good results next spring. Price, \$1.50 per bag of 100 lbs.; in 5 bag lots, \$1.25 per bag; in ton lots, \$1.00 per bag; 3c. per lb. in small quantities.

**Sheep Manure.** Apply 1000 lbs. per acre. For garden, lawn or greenhouse use, nothing surpasses sheep manure. It is clean and easily handled, besides giving immediate results. 1 lb., 5c.; 25c. per 5 lbs.; 100 lbs., 40c.; 500 lbs., 2.00; 1000 lbs., 4.00; 5000 lbs., 20.00; 10000 lbs., 40.00.

**Poudrette (Native Guano).** Apply 1000 lbs. per acre. Extensively used for garden, lawns, in making compost and in fact wherever a good, quick acting fertilizer is wanted. It is odorless and easily handled, besides giving immediate results. 1 lb., 5c.; 25c. per 5 lbs.; 100 lbs., 40c.; 500 lbs., 2.00; 1000 lbs., 4.00; 5000 lbs., 20.00; 10000 lbs., 40.00.

**"Planto." Plant Food.** 10c. cans.

(Fertilizer continued on next page.)

Fertilizers, if desired by Parcel Post, please include sufficient for postage charges on cash orders.



## FERTILIZER—Continued.

**Lime (Hydrated or Powdered).** This is a very fine article for distributing on grass. It promotes growth; gives the grasses rich color, and has a tendency to prevent the growth of weeds. Apply one ton per acre on fields or  $\frac{1}{2}$  ton on lawns. Per 120-lb. sack, \$1.00; 200 lbs., \$1.50; ton, \$8.50. Special price in carload lots and f. o. b. factory.

**Nitrate of Soda.** Apply 100 to 150 lbs. per acre, mixing with land plaster or other fertilizer to render application more easy. Use only after plants are above ground. If used in liquid form dilute two ounces to one gallon of water and do not apply oftener than twice a week. Owing to war conditions, cannot quote; write or inquire for prices.

**Land Plaster.** Apply about 1000 to 1500 lbs. per acre. For a top dressing on sour and wornout soils, also for mixing with Paris Green. 5 lbs., 15c.; 35c. per 25 lbs.; 50 lbs., 60c.; 90c. per 100 lbs.; 200 lbs., \$1.25; \$10.00 per ton.

**Blood (Dried).** For indoor culture of flowering plants, like roses, carnations, etc., its chief element being nitrogen. 5 lbs., 30c.; 50c. per 10 lbs.; 25 lbs., \$1.25; \$2.00 per 50 lbs.; 100 lbs., \$3.75; \$6.75 per 200 lbs.

**Salt.** For agricultural purposes, asparagus beds and putting on walks and roads to kill weeds. Apply 600 to 800 lbs. per acre; in early spring. 10 lbs., 20c.; 30c. per 25 lbs.; 50 lbs., 55c.; \$1.00 per 100 lbs.; 200 lbs., \$1.50; \$10.00 per ton.

They contain those ingredients in their proper proportions that are necessary for healthy plant life. Their use promotes a luxuriant, vigorous growth of branch leaf and flower. Thousands of plant lovers who do not keep plants would do so if they knew how beautiful and luxuriantly they could make them bloom by feeding them Sterlingworth Plant Tablets.

Prices: Large size, 25c., postpaid; trial size, 10c., postpaid.



**"Fluerette."** A liquid plant food. Makes strong and rapid growth, gives luxuriant foliage, enlarges and nourishes the bloom. Carefully prepared so as not to injure the tenderest shoot peeping through the soil or the most delicate fronds of the fern. Destroys all germs that breed insects in the soil and feeds the plant at the same time. To be diluted with water and it is ready for use.  $\frac{1}{2}$  pt., 15c.; pt., 25c.; qt., 40c.;  $\frac{1}{2}$  gal., 75c.; gal., \$1.15.

**Evergreen Brand Fertilizer.** Feed your flowers and plants on the most reliable and profitable greenhouse manure.  $\frac{1}{4}$ -lb. boxes, 25c.; 12-lb. cans, \$1.50; 50-lb. drums, \$5.00.



## STERLINGWORTH FISH OIL SOAP

It is a Fish Oil Soap the killing value of which is increased by the addition of tobacco and tobacco extractive matter. It possesses the valuable features of Whale Oil or Fish Oil Soap with the additional insecticide values of tobacco and may be used for all insect killing purposes for which Whale Oil or Fish Oil Soap may be used with doubly satisfactory results. Lb., 15c.; 5 lbs., 60c.; 10 lbs., \$1.00; 25 lbs., \$2.40; 50 lbs., \$4.50; 100 lbs., \$8.50

## M. & S. INSECT DESTROYING PREPARATIONS.

**"Thanatus."** An insecticide to destroy mealy bugs, snail, green fly, red and black spider, black flea, scale and all insects that infest plant life. It is perfectly harmless to the bloom, bud or plant, and contains no poison or acid; in fact, a flower could be soaked in this solution for several minutes without doing any damage whatsoever. No solution now on the market is as harmless and so effective. "Thanatus" is very adaptable for all indoor plants, and always ready for use by diluting with water. Directions on label.  $\frac{1}{2}$  pt., 25c.; pt., 40c.; qt., 75c.;  $\frac{1}{2}$  gal., \$1.00; gal., \$1.75; 5 gal., \$5.



**Hammond's Slug Shot.** A non-poisonous powder; it requires no further mixing or preparation; easily applied, and not injurious or dangerous to animals or the person applying it on fruits and vegetables treated; destroys potato bugs and beetles, green and black fly, slugs, worms, caterpillars, etc. Ten to forty pounds is enough for an acre. Cartons, 10c.; 5-lb. pkg., 25c.; 10-lb. pkg., 50c.

**"Bug Death."** Kills potatoes, squash and cucumber bugs, currant and tomato worms, and all bugs and worms that chew the leaves of plants; non-poisonous. Lb., 15c.; 3 lbs., 35c.; 5 lbs., 50c.; 12 $\frac{1}{2}$  lbs., \$1.00; 100 lbs., \$7.50.



**Dickey Duster.** Used for applying "Bug Death," 25c.  
**Paris Green.**  $\frac{1}{4}$  lb., 10c.;  $\frac{1}{2}$  lb., 15c.; 1 lb., 30c.



Pat. March 16 and Nov. 9, 1897.

**White Hellebore.** For rose slugs, currant worms, etc.  $\frac{1}{2}$  lb., 15c.; lb., 25c.

**Whale Oil Soap.** An excellent wash for trees and plants. Effective against scales and insects. One pound to four gallons of water. Lb., 25c.; 5 lbs., 75c.

**Lemon Oil "Standard" Insecticide.** As a dip or a spray effective and harmless to delicate plants. Destroys thrip, scale, red spider fly, caterpillar, American blight, etc. Dilute with 50 parts of water. Odorless, poisonless, the best flea killer, wash and mange remedy for dogs and cats.  $\frac{1}{2}$  pt., 25c.; pt., 40c.; qt., 75c.;  $\frac{1}{2}$  gal., \$1.25; gal., \$2.00.

**Sulpho-Tobacco Soap.** A sure and safe exterminator of all kinds of insects and vermin. A powerful fertilizer. Pkg., 10c. and 20c.  
**Tobacco Dust.** Lb., 5c. Special price on quantity.

**Flowers of Sulphur.** Effective for mildew. Lb., 10c.; 5 lbs., 40c.

We just received this order from Miss Martha Schurmann, Roland Park, Md.: "Please deliver to bearer one-half dozen bottles 'Thanatus' and one-quarter dozen 'Fluerette.' These two articles surpass by far anything of their nature I have ever used."





**Grape Dust.** A powder preparation used for mildew, aphids, black fly, and other insects and fungous diseases, principally in greenhouses. Per 5 lbs., 40c.; 75c. per 10 lbs.; per 25 lbs., \$1.75; \$6.00 per 100 lbs.

**Blue Stone, or Copper Sulphate.** Lb., 10c.

**"Nico-fume."** A tobacco paper insecticide for fumigating greenhouses. Extensively used by prominent florists. Very easy to apply. 24 sheets, 85c.; 144 sheets, \$4.00.

**Nico-Fume Liquid.** A refined solution of free nicotine. Used as a spray or fumigator. Death to all kinds of insects that infect plant life. ¼-lb. can, 50c.; 1 lb. can, \$1.50; 4-lb. can, \$5.50.

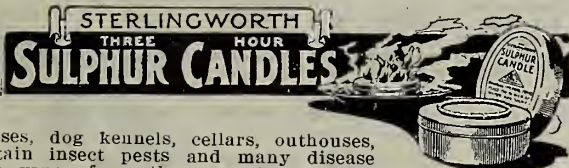
**Black Leaf 40.** A concentrated solution of Nicotine Sulphate, an excellent spray for black aphids sucking insects of all kinds; dilutes 1 part to 900 or 1000 parts of water, according to treatment. ½ lb. makes 47 gal. solution. Full directions on each package. ½ lb., 75c.; \$2.50 per 2 lbs.; 10 lbs., \$10.75.

**Stott's Fir Tree Oil Soap.** A non-poisonous insecticide for use on trees and plants of all kinds. Used on animals, it will cure mange and all skin diseases, and it is most effective for destroying fleas and other insects. One ounce makes one gallon. ½-lb. cans, 25c.; 2-lb. cans, 75c.

## ORIOLE WEED KILLER.

A scientific preparation for destroying grass and weeds in paths, roadways, streets and gutters. To be diluted with water. Qt., 35c.; ½ gal., 60c.; 5 gals., \$4.00; 10 gals., \$7.50; barrel lots, 65c. per gallon. One gallon makes 40 gallons of solution.

They contain sufficient sulphur to burn 3 hours. They are excellent for ridding poultry houses, dog kennels, cellars, outhouses, etc., of certain insect pests and many disease germs. The vapor from them penetrates crevices which cannot be reached by powders or liquids. Price, 15c. each; mailing weight, 1 lb.



Is a non-poisonous dry powder for sowing on the lawn and adheres to the broad flat leaves of such weeds as milk weed, witch grass, wild morning glory, dandelions, poison ivy, sumach, etc. It does not stick to the grass because of its upright position and smooth surface. The ingredients in combination with the sun's rays burn out the weeds. The compound has an invigorating effect on the grass, which stimulated by it springs up rapidly and gets ahead of the weeds that have been stunted and killed by the compound and quickly chokes them out. The use of Sterlingworth Lawn Compound helps give to the grass a beautiful rich bottle-green velvety color so much admired by lovers of good lawns. Two applications will clean out the most heavily weeded lawn. In many instances one application will do it. Do not dig out weeds, it leaves bare spots and holes. Sterlingworth Lawn Compound is easily applied by sprinkling over the weedy lawn. One pound will dress 100 to 200 square feet, depending on the lawn's condition. 1 lb., 50c., mailing weight, 2 lbs.; 5 lbs., \$2.00, mailing weight, 6 lbs.

**Pyrox (Bowker's).** A pasty substance used for all leaf-biting insects. It is really a Bordeaux and Arsenate of Lead combined and is excellent. Dilute 1 lb. to 5 gals. water. 25c. per lb.; 5 lbs., \$1.00; \$1.75 per 10 lbs.; 25 lbs., \$4.00; 50 lbs., \$7.50.

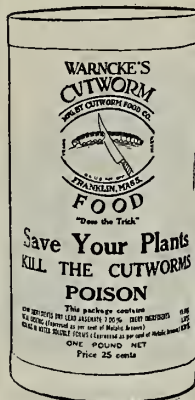
**Rat Corn.** For destroying rats and mice in greenhouses, hot-beds, etc. 15c., 25c., 50c. and \$1.00 per box.

**Aphis Pank.** A paper that has been thoroughly saturated with nicotine. Used for fumigating, giving off dense fumes of nicotine. Excellent for aphids, thrip, white and green fly, also red spider. (For use in greenhouses only.) Per pkg., 60c.; \$6.50 per 12 pkgs.

**Dalmation, or Persian Powder.** For ridding buildings of all kinds of various insect pests. Particularly for the smaller and creeping kinds, as it is not strong enough to destroy large or more hardy insects. Per lb., 50c.

## LIME SULPHUR SOLUTION.

For destroying San Jose Scale. This is a concentrated form which is diluted 1 gal. to 12 or 15 gals. water, either hot or cold. May be used as a summer or winter spray, excellent to use as a fungicide. Qt., 25c.; gal., 75c.; 5 gals., \$2.00; 10 gals., \$3.00; 25 gals., \$5.00; 50 gals., bbl., \$9.00



## WARNICK'S CUTWORM FOOD.

Simply put the Food on the ground around the plant in the afternoon, when the ground is not wet; and one night, or possibly two, will practically rid the field of the worms there. If it rains within 40 hours after putting on the Food a second dose should be applied, so that the effective part of the Food may not be washed out until the worm can get at it. Very rarely in the North, but more frequently in the South, a second crop of worms appear, and a later application of the Food is necessary to overcome them.

One pound will protect 75 to 100 plants, which makes the expense either of cash or time, very small; almost nothing compared with the value certainly saved.

### PRICES:

One pound package.....\$ .25  
Five-pound packages.....1.00  
Ten-pound package.....1.50

**Electro Arsenate of Lead in Dry Powder Form.** Is the only successful dry arsenate of lead because it is the only one in amorphous (non-crystalline) form. Electro Arsenate of Lead is in a form that will stick the longest. This is not true where the product is granular or crystalline. This is one reason why Electro Arsenate of Lead should always be used. Heavy rains will not readily wash it off, and it will be effective for months after application. It mixes instantly with water. ¼-lb. cartons, 25c.; 1-lb. cartons, 40c.; 6-lb. kits, \$1.50. Special prices in quantity.

**Electro Arsenate of Lead Paste.** Is supplied where a paste form is desired. The material is guaranteed to contain 20% arsenic oxide on a basis of 40% water. Most paste forms of arsenate of lead contain but 12½ to 15% arsenic oxide and 50% of water. This material has all the chemical qualities of the Powder and is in the same physical condition, except that it is packed in paste form. 1-lb. jars, 30c.; 2-lb. jars, 50c.; 12½-lb. kits, \$2.25. Special price in quantities.

## "ELECTRO"



## SPRAY CHEMICALS



Tomato Horn Worm.

**Electro Bordo-Pulp, or Bordeaux Mixture.** Is a scientific compound of copper sulphate (blue vitrol) and high-grade lime for use as a fungicide only. It is not poisonous to insects.

This is Bordeaux Mixture (one of the oldest fungicides known) in a concentrated form. It has long been found satisfactory for the control of fungous diseases.

Because of the fact that we can carefully watch the crude materials as well as the process of manufacture, we can turn out a concentrated Bordeaux better than the grower at home who must utilize crude methods. 1-lb. jars, 30c.; 10-lb. kits, \$1.50.

**Electro Bordo-Lead Mixture.** A great substitute for Pyrox. This is a combination of our 20% Electro Arsenate of Lead Paste and Electro Bordo-Pulp in proper proportions. Ten pounds of this in 50 gallons of water will be equivalent in arsenate of lead to approximately 5 lbs. of our 20% Arsenate of Lead Paste, and in Bordeaux to the 4-4-50 formula.

The remarks on Electro Bordo-Pulp are also true of the Bordo part of this mixture. Consequently, you will see that this is a very desirable spray material to use, giving a combined fungicide and insecticide ready for use, requiring only thinning down and addition to water. This mixture is especially adapted for a combined spray on potatoes, tomatoes, etc. 1-lb. jars, 30c.; 10-lb. kits, \$1.75. Special price in quantity.

**Electro Kerosene Emulsion.** This is for spraying plant lice, aphids, leaf hoppers, etc. It is readily soluble in water, and should be diluted for the various insects and fruit trees per directions on the label. 1-qt. cans, 40c.; 1-gal. cans, \$1.00; 5-gal. cans, \$3.75. Special price in quantity.

**Electro Insecticide Soap.** Superior substitute for whale oil soap. Oil soap is especially valuable as a spray for lice and soft-bodied larvae. By our process we obtain an oil soap which does not contain free alkali. This is a very important item, as the presence of free alkali means severe injury to foliage and fruit. Unlike most so-called whale oil soaps on the market, this is not a by-product with us, but is especially prepared for the purpose for which it is required, and consequently much greater care is used in its manufacture. 1-lb. cans, 25c.; 5-lb. cans, 90c.; 10-lb. kits, \$1.25. Special price in quantity.

(Spraying Material continued on next page.)



INSECTICIDES—Continued.

**VREELAND'S MICRO.**

For Dusting Potatoes, Corn, Tomatoes, Etc.



Cabbage Worm.

The control of chewing insects on ground crops by dusting is just as effective, more economical and often more convenient than by wet spraying. Vreeland's "MICRO" is a perfect dust-spray,

combining with it such fungicidal properties that an extra fungicide spray is not necessary in many instances. 1-lb. cartons, 40c.; 6-lb. kits, \$1.50; 12½-lb. kits, \$2.25. Special prices in quantity.

"Electro" Tree Wound Paint. Is used for painting the wounds on trees after pruning or where canker has been cut out. It makes a perfectly smooth surface, impervious to water, and it is a splendid disinfectant. One application is all that is necessary. 1-qt. cans, 50c.; 1-gal. cans, \$1.50; 5-gal. cans, \$6.25. Special price in quantity.

**TREE TANGLEFOOT (Catapillar Preventative).**

No Caterpillar and Creeping Insect Escapes its Sticky, Deadly Grip.

The destroying army is coming. Don't wait until you see the vanguard. Band your trees with Tree Tanglefoot two weeks before the Gypsy, Brown-tail and Tussock Moth Caterpillars and Canker Worms, Climbing Cut Worms and Bag Worms begin their ravaging work.

Easily and Quickly Applied with a Wooden Stick.

Tree Tanglefoot is harmless and the only sure and safe protective. One pound makes about nine lineal feet of band. One coating lasts three months and longer in any temperature, rain or shine—remains sticky and powerful twenty times as long as any other substance. Needs no mixing—just open the can and apply. Will not soften or run down the trunks of the trees. Absolutely prevents any creeping, crawling pests from harming your trees. 1-lb. cans, 30c.; 3-lb. cans, 85c.; 10-lb. cans, \$2.65; 20-lb. cans, \$4.50.

**"SCALECIDE"—THE TREE SAVER.**

Are your trees healthy and vigorous. If so, "SCALECIDE" will keep them so; if not, we will guarantee that "SCALECIDE" applied once yearly, while the trees are dormant, will do more to bring them back to health, vigor and fruitfulness than any other spray you can use.

Spray every bush, shrub, vine and tree in your yard in the spring, before they leaf out, with "SCALECIDE" diluted 1 part to 15 parts of water. It will clean them of scale, eggs and larvae of insects, and the spores of fungi, that you can reach while the trees are dormant, allowing them to leaf out in the Spring freed from all these parasites, and giving them a healthy start.

"SCALECIDE" is not disagreeable to handle; does not corrode or stop up your pumps; does not injure the most delicate skin (it can even be placed in the eyes without the slightest inconvenience or injury), and does not stain woodwork. It is not a Summer spray, but the Winter application has an invigorating effect on plant or tree growth.



One gallon of "SCALECIDE" will spray as many trees as 3½ gallons of Lime-Sulfur Solution. Dilute for all dormant spray work 1 part to 15 parts of water: 1 qt., 40c.; 1 gal., \$1.00; 5 gals., \$3.75; 10 gals., \$6.75; 30 gals., \$16.00; 50 gals., \$25.00.

**"SULFOCIDE."**

This is a soluble sulphur compound, and when used as a paint will protect young trees from the attacks of rabbits and mice, and also from apple and peach borers. It is the best remedy known that is non-injurious. When dry, it is almost insoluble in hot or cold water. One or two applications last a year.

"SULFOCIDE" as a fungicide is invaluable in the garden for controlling most fungous diseases effecting vegetables, when a poison is not needed. One gallon makes 200 to 300 gallons of spray.

Especially valuable for rusts, mildew and red spiders on roses, hollyhocks, etc. 1 pt., 50c.; 1 qt., 75c.; 1 gal., \$2.00.

**M. & S. RELIABLE SPRAYING APPARATUS.**

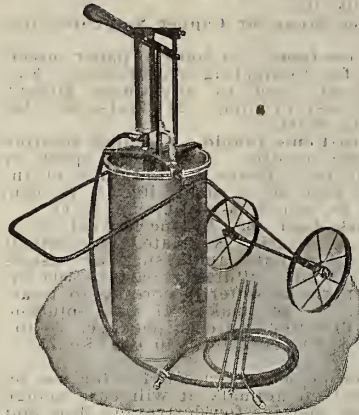
THE PARAGON SPRAYER.

Especially desirable for the reason that it is not necessary to strain the material before pouring it into the reservoir; although we recom-

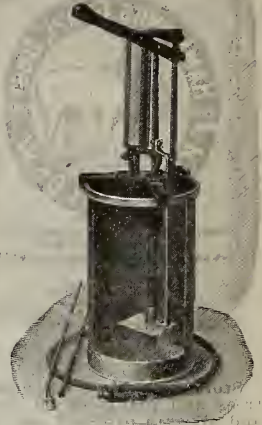
mend that this be done; guaranteed to give absolute satisfaction. Excellent for applying whitewash or cold water paint.

No. 0. Equipped with a 3-gal. reservoir, 4 ft. of hose, nozzle and extension pipes, \$7.50.

No. 1. With a 5-gal. reservoir, 5 ft. of hose and 2 extension pipes, \$10.00.



No. 3 Paragon Sprayer.



No. 1 Paragon Sprayer.

No. 3. Equipped with a 12-gal. tank mounted on a truck, three 2½-ft. extension pipes, 2 nozzles and 10 ft. of hose, \$15.00.

No. 4. Mounted on a two-wheel truck; equipped with 10 ft. of extension pipe, 20 ft. of hose, and 2 nozzles. Complete, \$22.00, or with barrel, but no truck, \$17.00.

Extension Pipes, etc. For reaching into trees, 3-8 in. threads.

Bamboo, with brass tube, 8 ft. \$2.00.

Bamboo, with brass tube, 10 ft. \$2.50.

Galvanized Iron, for Auto Sprays, 2 ft. 30c.

Brass, for Auto Sprays, 2 ft. 45c.

Stop Cock, for extension pipes, 40c.

Spray Nozzles—One-Point Vermorel. All brass. Furnished with five extra steel discs which may be easily renewed. The steel is heavily galvanized and will not wear as fast as brass. 75c., postpaid.

(Spray Nozzles continued on next page.)

**THE AUTO SPRAY.**

It operates with compressed air; safe and efficient; liquid capacity four gallons; pressure capacity, forty pounds. The Brown Auto-Spray is probably the first real successful Compressed Air Sprayer ever put on the market. Previous to its introduction there were other makes, some of them still being offered for sale. We have had a wide and varied experience with the different ones, and after personal tests and noting the experiences of our customers, finally adopted as our standard compressed air sprayer this make. No sprayer is sold under broader guarantee for efficiency and durability. The Auto-Spray must please and will accomplish all that any first-class sprayer will or the purchase price will be refunded. They will successfully spray bushes, shrubbery and trees, the latter with the use of extension pipes. The brass tank sprayer is the best, as corrosive solutions can be used in it without injuring the same, and the extra cost over the galvanized will prove a good investment. Parcel Post weight 15 lbs. on all four styles.

No. 1-A Brass, equipped with hose and regular nozzle, \$6.75.

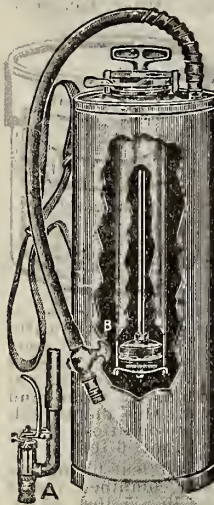
No. 1-B Brass, equipped with hose and Auto-Pop Attachment, \$7.25.

No. 1-C Galvanized Iron, equipped with hose and regular nozzle, \$4.50.

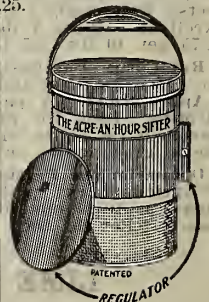
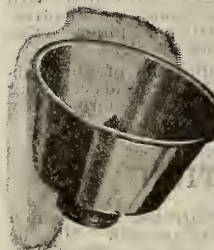
No. 1-D Galvanized Iron, equipped with hose and Auto-Pop, \$5.00.

Auto-Pop Nozzle Attachment controls the flow instantly by a pressure of the hand. When Auto-Pop Attachment is purchased separately, \$1.50 each. COPPER STRAINER.

For straining white-wash, spraying material, etc. \$1.00 each.



PATENTED.

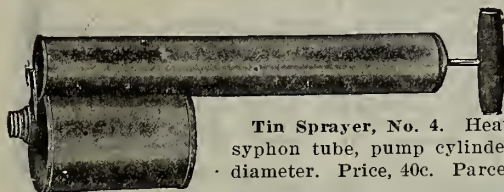


"Acre-an-Hour" Duster. 50c. Paris Green. In cartons. Strictly pure. ¼ lb., 10c.; ½ lb., 15c.; 1 lb., 30c.



## THE NON-CLOG ATOMIC NOZZLE.

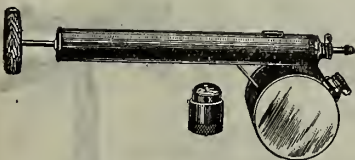
Is unequalled for perfect and even distribution of spray, fine mist-like effect, adaptability to various conditions, simplicity, accuracy of construction and lightness in weight. The nozzle is made either of cast bronze or aluminum, as required. It has full threads turned on a turret lathe and not stamped from thin metal with spun threads. The nozzle may be adjusted to throw every graduation of spray, from a fine, wide bell shape to practically a solid stream throwing a distance of 20 feet. The adjustment is simply made.  $\frac{1}{4}$  in. thread. Non-Clog Junior, for small work, 60c.; Non-Clog Regular Aluminum, \$1.00; Non-Clog Regular Brass, \$1.25. All above postpaid.



**Tin Sprayer, No. 4.** Heavy material, copper syphon tube, pump cylinder extra large, 2 in. diameter. Price, 40c. Parcel Post weight 3 lbs.

## AUTO-SPRAY, No. 37—Continuous Sprayer.

Made in two sizes, one quart and one-half gallon capacity. Will handle all solutions, insecticides and disinfectants. May be used for all plant life, in the greenhouse, kitchen garden, for rose bushes and in the poultry house. The one-half gallon size is ideal for the florist or for field work where there is not a great area to cover. Both sizes are identical in construction with the exception only of the size of the reservoir.

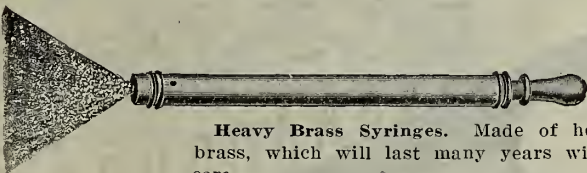


**Two Spray Caps.** One straight, the other at an angle for reaching under side of leaves. Will operate at any angle and will not tip over when filling.

**Screw Caps Re-inforced** with thumb levers—easy to turn.

### LIST PRICES:

**Auto-Spray, No. 37B.** One quart, tin pump, galv. tank.....\$ .75 each  
**Auto-Spray, No. 37C.** One quart, tin pump, brass tank..... 1.00 each  
**Auto-Spray, No. 37D.** One-half gallon, tin pump, galv. tank. 1.25 each  
**Auto-Spray, No. 37E.** One-half gallon, tin pump, brass tank. 1.50 each  
 (Parcel Post weight 3 lbs.)



**Heavy Brass Syringes.** Made of heavy sheet brass, which will last many years with a little care.

**No. 101.** Stream and spray rose, 12 in., 1 in. cyl. \$1.50.

**No. 102.** Stream and spray rose, 16 in., 1 in. cylinder. \$2.50.

**No. 103.** Stream and spray rose, 16 in.,  $1\frac{1}{2}$  in. cylinder. \$3.00.



Fig. 4.



No. 2



No. 3

### Rubber Plant Sprinklers.

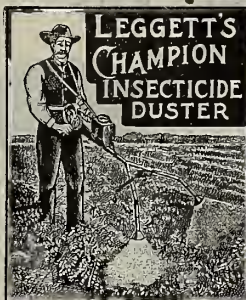
\* They can be used for sprinkling plants, cut flowers, etc.; also for damping clothes and carpets and for disinfecting purposes.

**No. 1.** 8-oz. straight neck, \$1.00; fig. 2, angle neck, \$1.00. Parcel Post weight 1 lb.

**No. 2.** 4-oz. straight neck, fig. 3, 75c.; angle neck, 75c. Parcel Post weight 1 lb.

**Insect Powder Bulb.** Small size, 10c.; large, 25c.; these two postpaid. Fig. 4 can also be used with water. \$1.00. Parcel Post weight 1 lb.

**Champion Powder Gun.** This machine will distribute dry insecticides, covering one or two rows at one time, will save its price in material used in one season.



**This Machine keeps the Poison at a Safe Distance from the Operator.**

Dusts potato vines as fast as you walk, two rows at a time. Each machine is furnished with two tubes, five nozzles and strap. Anyone can use it. Weighs, cased for shipping, 17 pounds. Price, \$8.00.

**Little Giant Powder Duster.** This Duster is somewhat like the Champion Duster, except it is lighter and has a smaller capacity. It is nicely made and very strong. Our special price, \$6.00.

**The "King" Barrel Spray Pump.** Fig. 5. This pump has self-oiling plunger and is constructed so that the packing may be tightened without taking the plunger out of the cylinder. No leather or rubbers used in the pumps; the packing is specially prepared and will withstand the action of spraying chemicals longer than any other material and can be replaced in a few minutes at a nominal cost. Dimensions,  $1\frac{1}{4}$  in. cylinder; 2 in. air chamber and fastens to chime of barrel. Equipped with 5 ft. hose, nozzle, agitator, etc. Price, \$10.50.

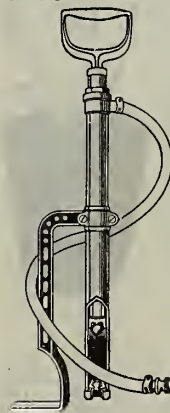


Fig. 1.

**"Modoc" Bucket Pump.** Fig. 1. This pump is all brass except the foot piece and handle. The foot piece holds the pump firmly in the bucket or pail in just the proper position for work. The pump is equipped with 3 feet  $\frac{1}{2}$  in. spray hose attached with clamps. Price, \$3.00.

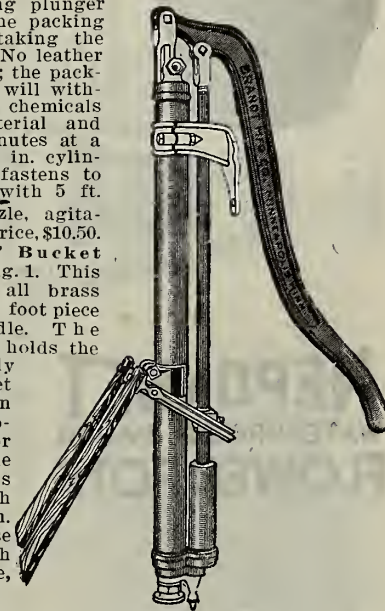


Fig. 5.

## LAWN SPRINKLER.

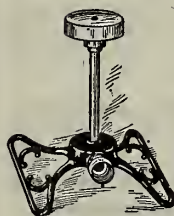
**Ring Fountain Sprinkler.** All brass. Price, 75c. Parcel Post weight 1 lb.

**Lawn Shower Sprayer.** No. 3. Fig. 6. An even, gentle spray is thrown over 25 ft. in diameter at a water pressure of 40 lbs. The nozzle may be connected to hose for washing sidewalks. Used in concrete mixing and general fire protection. It makes an attractive fountain display. Holder and nozzle complete ( $\frac{3}{4}$  in. connection), \$2.00

(Parcel Post weight 4 lbs.)

**Three-arm Sprinkler.** \$1.25.

**Four-arm Sprinkler.** \$1.75.



## FLOWER POTS, TUBS, STAKES, ETC. CEDAR TUBS.

Equipped with Strong Iron Hoops and Feet.

These are made by hand, of the very best white cedar painted green. They will be found very much superior to lower priced cedar tubs.



Sizes.	Diameter.	Depth.	Price.
16x16			\$2.50
18x18			2.75
20x20			3.00
No. 3.....	14 $\frac{1}{4}$ in.	14 in.	1.85
No. 4.....	16 in.	15 in.	2.65
No. 5.....	19 in.	18 in.	2.65
No. 6.....	22 in.	19 $\frac{1}{2}$ in.	3.45

### Square Plant Tubs (Gothic Style).

No. 1.....	11 $\frac{1}{2}$ in.	11 $\frac{1}{2}$ in.	\$1.15
No. 2.....	13 $\frac{1}{2}$ in.	11 $\frac{1}{4}$ in.	1.50

(Flower Pots, Etc., continued on next page.)

Gentlemen: I have purchased my seed from you for the past four seasons and it seems like the results I get from same are better each year. I can truthfully say that they have given entire satisfaction. Yours truly,

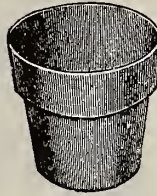
J. N. ROBINSON, Still Pond, Md.



## FLOWER POTS—Continued.

## EARTHENWARE FLOWER POTS.

	Each	Doz.	Per 100	Per 1000
2 in.....	1c.	10c.	\$ .75	\$5.00
3 in.....	2c.	15c.	1.00	7.50
4 in.....	3c.	25c.	1.50	12.00
5 in.....	4c.	40c.	3.00	22.00
6 in.....	6c.	60c.	4.00	30.00
7 in.....	10c.	80c.	6.00	30.00
8 in.....			Each	Doz.
9 in.....			.12	\$1.25
10 in.....			.20	1.75
11 in.....			.25	2.25
12 in.....			.30	3.00
14 in.....			.40	3.50
14 in.....			.80	8.00
16 in.....			1.50	13.50



## Earthenware Bulb Pans.

	Each	Doz.
5 in.....	\$ .07	\$ .50
6 in.....	.10	.75
7 in.....	.12	1.00
8 in.....	.15	1.25
9 in.....	.18	1.75
10 in.....	.20	2.25

## Earthenware Saucers.

4 in.....	Each, \$ .02	Doz., \$ .20	10 in.....	Each, \$ .09	Doz., \$ .90
5 in.....	Each, .03	Doz., .25	11 in.....	Each, .11	Doz., 1.00
6 in.....	Each, .04	Doz., .35	12 in.....	Each, .15	Doz., 1.25
7 in.....	Each, .05	Doz., .50	14 in.....	Each, .25	Doz., 2.00
8 in.....	Each, .06	Doz., .60	16 in.....	Each, .40	Doz., 4.50
9 in.....	Each, .08	Doz., .75			

## Paper Flower Pots.

Size	Doz.	100	1000
2 1/4 in.....	\$ .08	\$ .35	\$3.00
3 in.....	.12	.55	4.50
3 1/2 in.....	.18	.70	6.00

# NEPONSET

## WATERPROOF PAPER FLOWER POTS

Extensively used for starting seeds and seedlings in frames and hot-houses.



## Pot Labels.

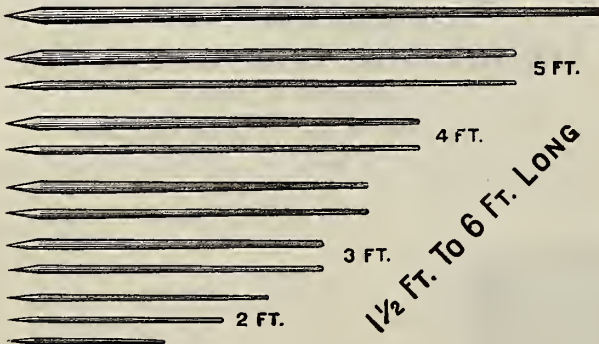
4 in., per 1000 .....	Plain, \$ .70	Painted, \$ .85
4 1/2 in., per 1000 .....	Plain, .85	Painted, 1.00
5 in., per 1000 .....	Plain, 1.00	Painted, 1.25
6 in., per 1000 .....	Plain, 1.25	Painted, 1.50
12 in., per 100.....	\$ .75	

## Painted Tree Labels.

3 1/2 in., notched or pierced.....	Per 1000, \$ .80
3 1/2 in., iron wired .....	Per 1000, 1.00
3 1/2 in., copper wired .....	Per 1000, 1.25

## Bamboo Plant Stakes.

2 ft., painted green.	Per doz., \$ .10	Per 100, \$ .55	Per 1000, \$4.00
3 ft., painted green.	Per doz., .10	Per 100, .60	Per 1000, 5.00
4 ft., painted green.	Per doz., .15	Per 100, .75	Per 1000, 6.00
5 ft., painted green.	Per doz., .20	Per 100, 1.00	Per 1000, 7.00
6 ft., not painted.	Per doz., .20	Per 100, 1.00	Per 1000, 6.00



## Heavy, or Dahlia Stakes.

3 ft.....	Each, \$ .07	Per doz., \$ .75	Per 100, \$4.85
4 ft.....	Each, .10	Per doz., 1.10	Per 100, 6.50
5 ft.....	Each, .11	Per doz., 1.25	Per 100, 8.15
6 ft.....	Each, .15	Per doz., 1.50	Per 100, 9.75

## LIGHT PLANT STAKES.

1 1/2 ft.....	Each, \$ .02	Per doz., \$ .20	Per 100, \$1.00
2 ft.....	Each, .03	Per doz., .30	Per 100, 1.70
2 1/2 ft.....	Each, .05	Per doz., .40	Per 100, 2.40
3 ft.....	Each, .05	Per doz., .50	Per 100, 3.20

## GARDEN TOOLS.

# KEEN-KUTTER

Round Point Long Handle Shovels, \$1.00.

Square Point D Handle Shovels, No. 2, \$1.00; larger, No. 4, \$1.10. Fig. 1.

D Handle Spade, \$1.00.

Long Handle Spade, \$1.25.

D Handle Nursery Spade. Double straps entire length of handle, \$1.75.

Ditching Spade. 20 in. blade, D handle, \$1.35.

"KEEN KUTTER" FORKS.

4-tined Hay and Manure. Long handle, 75c. Fig. 2. 3-tined, 6 ft. handle, 75c.

4-tined Manure. D handle, \$1.00; heavy, \$1.35. Fig. 3.

4-tined Spading Fork. D handle, 90c.

"KEEN KUTTER" HOES.

"Keen Kutter" Hoes. Fig. 4. Crucible steel, 7 and 8 in., 45c.; 1-pronged weeding hoe, 25c.; 2-pronged, 30c.; 3-pronged, 45c.; 5-pronged, 50c.

"Keen Kutter" Cultivator Hoes. Fig. 5. 75c.



Fig. 1.



Fig. 2.



Fig. 3.

"Keen Kutter" Pick. Fig. 9. Price, 75c.; with handle, \$1.00.

"Keen Kutter" Mattock. Price, \$1.00; with handle, \$1.25. From 2 1/2 to 4 in. wide.

Grub Hoe, or Mattock. Price, 75c.; with handle, \$1.00. From 2 1/2 to 4 in. wide.

Mattock and Pick Handles. Price, 25c.

Southern Queen, or Eye Hoes. 40c.; with handle, 60c.

English Scuffle Hoe. 6 in., 60c.; 8 in., 70c. No handle. Handle 10c. extra.



Fig. 4.



Fig. 3.



Fig. 5.

"Keen Kutter" Rakes. Bow pattern. Fig. 6. 14-tooth, 75c. Regular 14-tooth, 70c. Malleable Iron. 12-tooth, 25c.; 14-tooth, 30c.

"Queen" Lawn Rake. Fig. 5. 24 teeth, 50c. 44 teeth, 75.

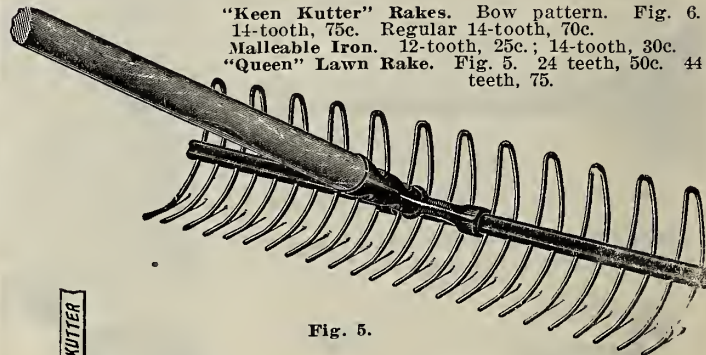


Fig. 5.

"Ole Olsen" Lawn Rake. All wood, 50c.; 26 teeth, hickory wood.

Split Handle Hay Rake. All wood, 20-tooth rake, 35c.; 10-tooth, 25c.

"Keen Kutter" Ladies' and Children's Garden Tool Set. Fig. 8. Consisting of rake, shovel, hoe and spading fork. Made of first class material. Not toys, but tools that will do and stand the work. Price, \$1.75. Single tools, 50c.

Potato Hook, or 4-pronged hoe. Price, 60c.

Turf, or Lawn Edger. For edging walks. Price, 50c.

English Turf Edger. Price, \$1.25, without handle; handle, 10c. extra.

English Waldron Scythe. 30 in., \$1.20; 36 in., \$1.30; 38 in., \$1.40; 40 in., \$1.50.

Peace's Riveted Back Scythe. Imported. Very keen cutter. 36 in., \$1.20; 38 in., \$1.30; 40 in., \$1.40.



Fig. 6.

(Garden Tools continued on next page.)



German Scythe. Hand tempered. Price, \$1.00; snathes for same, \$1.00; extra rings, 15c. each.

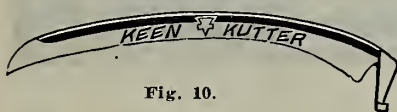


Fig. 10.

"Keen Kutter" Scythes. Fig. 10. Bramble, weed, or grass. Price, \$1.00.  
Improved Weed Scythes. (Americaine.) 32x34 in. Each, \$1.00.  
Improved Grass Scythes. (Scharnstein.) 32x34 in. Each, \$1.25.

Snathes. Light and heavy. Price, 75c.  
Whet Stones. Darby Creek, 10c.; English, 15c.; Carborundum, 25c.

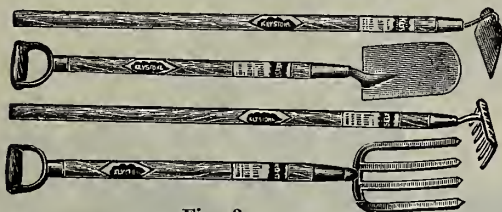


Fig. 8.

Magic "EZ" Weeder. Light in weight, strong in construction; excellent tool; in great favor; best for the price. Three times. Best quality No. 8½ steel wire. Nicely tinned. Length 9 in.; weight, 4½ oz. Black enameled handle. Price, 10c.; large size, 25c.



The "Alca" Garden Tool Combination. Can be used as a weeding fork, transplanting trowel, hoe, rake, or dihhle. Is very handy around small garden. Price, 50c. Fig. 11.



Fig. 12.

"Keen Kutter" Garden Fork. Fig. 12. All steel, 75c.; good steel fork, 25c.



Fig. 13.

"Dandelion" Spades. A practical weeder. Price, 25c.  
Excelsior Weeder. Five teeth. Fig. 15. Price, 10c.  
Passtime Weeder. Price, 25c.



Fig. 15.

Dibbles, or Planting Pegs. Bent wood handle. 30c.  
Cleveland Weed Puller. Fig. 13. Valuable for extracting weeds from the lawn. A great hack saver. The curved edge of the blade enters and loosens the soil; pressure on the lever then causes the toothed jaw to grasp the plant, and a slight pull will dislodge it without disturbing the surrounding sod. Price, 60c.

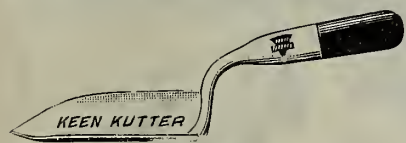


Fig. 14.

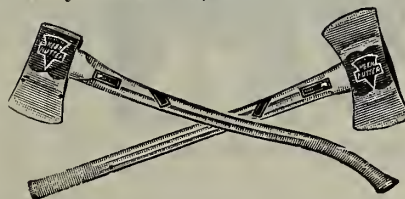
Transplanting Trowel. 6 in., 15c.; 8 in., 20c.  
Hoe Trowel. For setting out plants. Price, 40c.  
Bulb Trowel. Heart shaped. Price, 50c.



Fig. 13.

Watering Cans. Made of heavy galvanized iron, removable rose. 4 qt., 35c.; 6 qt., 45c.; 8 qt., 55c.; 10 qt., 60c.; 12 qt., 70c.; 16 qt., \$1.00. Long Spout Watering Cans made to order. One-quart size handy for indoors, 20c.

Keen Kutter Ax. Guaranteed article. \$1.50. Others at \$1.25.  
Hatchet. Beatty's Hatchets, Half Pattern and No. 2 Shingling, best quality. Each, 60c.



## PRUNING SHEARS, SAWS, KNIVES, ETC.

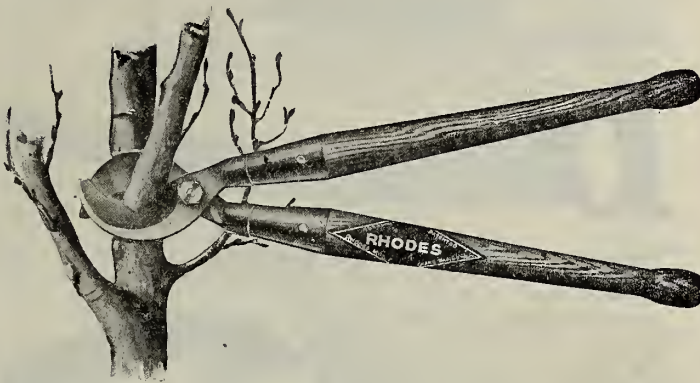


Fig. 1.

Rhodes Double-Cut Lopping Shears. Fig. 1. For trimming trees, bushes, heavy shrubbery, etc. Makes an absolutely clean, perfect cut; the blades are concave at the cutting edge, producing with the handles an enormous leverage. They are the easiest operating lopping shears ever made or sold; 24-in. handle. Price, \$2.50.

"Keen Kutter" Pruning Shears. Fig. 2. Curved blade and hook. Forged from highest grade crucible steel; polished and tempered; ratchet tightening knot; extra heavy and long steel ferrules; handles riveted through ferrules and tang; hardwood handles; natural finish. 20-inch handled, \$1.50; 24-inch handled, \$1.75.

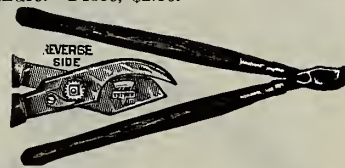


Fig. 22.

"Keen Kutter" Tree Pruner. Select hardwood pole, natural finish; forged steel hook, painted red, riveted to handle; tempered crucible forged tool steel draw cutting blade 4½ in. long, insuring ample leverage; copper finish steel wire drawing rod; steel lever handle, painted red with hardwood grip; clip that handle works in holted to pole; length of lever handle 11 in. 8 ft., 90c.; 10 ft., \$1.10; 12 ft., \$1.25.

Telegraph Tree Pruner. Without pole, \$1.00; saw attached, \$1.50.

Unique Hedge Trimmer. Fig. 23. No experience is required to operate the "Unique" Hedge Trimmer. It is so simply constructed, so easily operated and so effective that a novice can do the work better and more easily with our trimmer than a professional with the old method of trimming with the hedge shears. Price, \$5.00 a pair.



Fig. 23.

Solid Steel Imported Hedge Shears. Fig. 1. The celebrated English shears. 12 in., \$2.00; 10 in., \$2.00; 9 in., \$1.75; 8 in., \$1.50. All equipped with notch; the notch is very useful in heavy trimming or lopping.

Ladies' Hedge Shears. 5½ in. cut. Price, \$1.25.

Lawn Shears. Two wheels, 8-in. blade, for cutting on narrow borders, under fences and shrubs. Price, \$2.75.

Border Shears. 10 in., \$2.50; without wheel, \$2.25.

Snips. For cutting flowers, small twigs and wire. Fig. 4. 75c. each.

Hand Pruning Shears. Fig. 2. 9½ in. full polished German pruner, \$1.50; 8½ in., \$1.00; 7½ in., 85c. Fig. 3. 8½ in. French pruner, very good, \$1.25. 8½ in., No. 1537, a good, pruner, 50c.; 6 in. Ladies' pruner, full polished, 55c. Fig. 6.



Figs. 1

2

3

4

5

6

Flower Gathering Scissors. Large and perfect. Do not tire the hands. Price, \$1.00. Fig. 5.

Grass and Sheep Shears. Full polished, imported shears, \$1.00; half-

(Grass Shears, Etc., continued on next page.)

Mr. Harry Busick, of Towson, Md., says: Gentlemen: I planted two bushels of Irish Cohhler Potatoes purchased from your house and am delighted to tell you that I harvested 30 bushels of fine large tubers out of the patch.



polished, excellent quality, 75c. and 50c.; fine for trimming grass; cheaper grade, 25c.

**Mule Shears.** For trimming fetclocks. Price, 50c.

**Pruning Knives.** Horn handle, 75c.; wood handle, 65c.

**Budding Knives.** Ivory handle, \$1.25; bone handle, \$1.00.

**Pocket Knife,** combined pruning and budding, \$1.00.



Fig. 15.

**Pruning Saws.** Made of the very best material. Fig. 15, 75c.; Fig. 3, somewhat larger, stronger and coarser teeth, \$1.00.

**Grafting Wax.** ¼ lb., 10c.; ½ lb., 20c.; lb., 35c.

**Townsend Grass and Weed Sickle.** Fig. 20. Light, strong, durable. The blade 13 in. long, 2¼ in. wide at the heel, is made of crucible steel, oil tempered and sharpened to a razor edge. The shank, made in two parts, of pressed steel, forms the socket for the handle, and the blade is riveted between these two parts, making a solid coupling which will not break or become loose. The handle is selected ash. A slight bend in the shank throws the handle, which is 3 ft. 8 in. long, up at an angle which enables the user to stand almost erect when at work. Price, 75c.

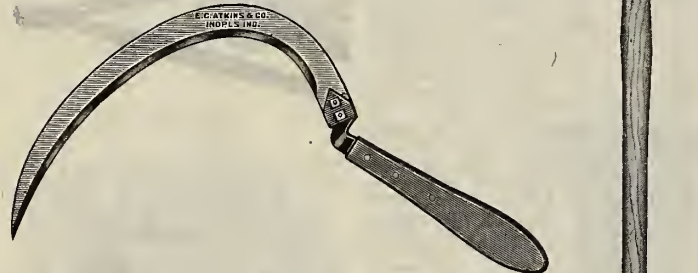


Fig. 16.

**Perfection Grass Hook.** Made of highly tempered steel, conveniently bolted to the handle, so it can be detached and made into a small package for taking to graveyards or other purposes. Fig. 16. Price, 50c.



Fig. 21.

**M. & S. Sickle.** Similar to the above, of equally as good material, but short handle. Price, 40c.

**English Grass Hooks, or Sickles.** Riveted back. Price, 40c. and 45c. Solid blade, 30c.

**German Grass Hooks or Sickles.** Price, 25c.

**Mole Traps.** Crandel's "Lightning." Fig. 21. Very effective. Price, \$1.50.

**The Reddick Mole Trap.** Price, 75c.

**Asparagus Buncher.** The latest improved. Price, \$1.50.

**Asparagus Knife.** Which makes a fine weeder as well. Price, 30c.

**Wire Fruit Pickers.** To be adjusted to long pole. Price, 25c. each.

## BASKETS, BAGS, ETC.

**Splint or Chip Baskets.** With handle. ¼-bu. size, 5c.; ½-bu. size, 10c.

**Strawberry Boxes.** 1-qt. size, 10c. doz.; per 100, 60c.; per 1000, prices furnished on application.

**Pea Bags.** Used by Anne Arundel farmers for bringing peas and beans to market. Price, 15c.; for quantities, write for prices.

**Picking Baskets.** ½-bu. size, 15c. each. Per dozen, without handles, \$1.50; with bow handles, \$1.75.

**White Oak Baskets.** Side handled, 1 bu., 60c.

## TWINES, GARDEN REELS, ETC.

**Jute Twine.** 3 ply, 10c. ball; 20c. lb.

**Cotton Twine.** 3 ply, for tying vegetables, 5c. ball; 20c. lb.

**Cotton Twine.** 4 ply, special thin, 8c. ball; 30c. lb. Fig. 20.

**Binder Twine.** Standard; ball, 70c. Quantity price furnished on application.

**Fodder Twine, or Tared Sisal.** Lb., 10c. Quantity prices furnished on application.

**Marline** for mat making, 20c. ball.

**Plow Lines.** Cotton, per pair, 45c.; Sisal, 25c.

**Garden Line.** 150 feet of good cotton line, 25c.

**Garden Reels.** Medium, 75c.; large, \$1.00; large, double reel, \$2.00.

**Raffia.** Fig. 21. For tying asparagus, and used extensively for tying roses, chrysanthemums or anything in the garden. Price, 20c. lb. Special price on quantity.



Fig. 21.

**Trace Chains.** 7 ft., straight link, hook or ring. Price, 65c. per pair.

**Cow Chains.** 20 feet. Tying out, 75c. and \$1.00; stable ties, 25c.

**Breast Chains.** Double, 45c. pair; single, 35c. pair.

**Iron Bound Hames.** Price, 75c. per pair.

**Hames Straps.** Price, 20c. each.

**Back Bands.** Leather loop, 75c.; patent, 50c.

**White Pine Sash.** Made to hold either 24 or 28 8x10 panes. These sash are grooved so that the panes slide in and butt one against the other. Price of either size, 90c. each. Cypress, 85c.

**Hotbed Glass.** Box of 90 panes, 8x10, \$2.25.

**Hotbed Mats.** Interlined with wool. 40x76 size, covers one sash, \$1.00; 76x76, covers two, \$1.50. Special prices by dozen.

**Putty Bulbs.** For applying liquid putty. Fig. 22. Price, \$1.00.

**Twenlow's Old English Glazing Putty.** Semi-liquid.



Fig. 22.

For bedding glass in sash and filling cracks or seams in roof joints or frames of hotbeds or greenhouses. Gal., \$1.40.

**Peerless Glazing Points.** (Imp. Van Reyper.) The finest glazing points on the market. Per box of 1000, 60c.; pincers, pair, 50c.

**Plant Bed Cloth.** A cheap substitute for glass, and will keep out many degrees of frost; for poultry houses. Also useful for shading material. Samples mailed on application. Heavy grade, yard, 12c.

## THERMOMETERS.

**Regular Thermometer.** Nicely finished. Price, 25c.

**Self Regulating Hothouse Thermometer.** Best grade, \$3.25; second grade, \$2.25.

**Hotbed Thermometer.** Brass point. Price, \$1.25.

## RUBBER HOSE, REELS, MENDERS, ETC.

The hose we offer is the best. It is all guaranteed not to break.

¾ in. Motor. 5 ply, 25 ft., \$2.50; 50 ft., \$4.50; black hose.

¾ in. Royal. 5 ply, red hose, 25 ft., \$3.00; 50 ft., \$5.50.

¾ in. Reno. 4 ply, black hose; a piece of hose which will last several seasons. 25 ft., \$3.50; 50 ft., \$6.50.

**Norwood.** Continuous hose. We can furnish any length of this hose desired up to 500 ft. lengths; as good as any hose at 15c. per ft. including couplings, in 25 ft. lengths or over.

**Hose Couplings.** Brass, regular size, 15c. per pair.

**Hose Washers.** Rubber, regular size, 10c. per doz.

**Hose Nozzles.** Combined, solid stream and spray, 40c. each.

**Hose Reels.** Wood, \$1.00; steel, \$2.00. Fig. 5.

**"Hudson" Garden-Hose Mender.** Fig. 6. For ¾ in. hose. Specially adapted for family use. Hose can be mended or coupled securely and quickly. So simple that a child can use it. Price, complete with pliers, including six menders, 60c. Single menders, 10c., 3 for 25c. Pliers, 25c.

**The Sure-Shut-Hose Mender.** The simplest, strongest and best device on the market for repairing leaky hose. No tools whatever are necessary to attach it. Can be put on with the hands alone in less than a minute. Makes an absolutely water-tight connection. Is made entirely of brass, will not rust. Will fit any make of hose. Can be detached and used over and over again. Each, 15c.; per doz., \$1.50.

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## GRAPE PROTECTING BAGS.

If put on during the period when grapes are forming, they will save many times their cost in the amount of fruit they will save from insects, rot, etc. All ready with wire to fasten.



Fig. 6.

Bag all grapes to keep them from insect stings.

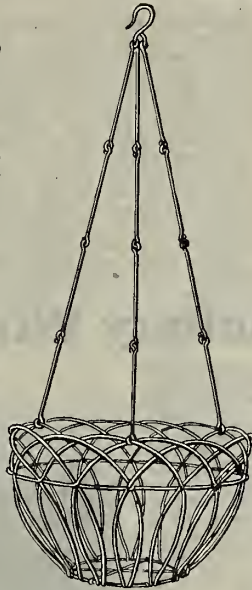
	100	1000
2 lb. size.....	\$ .30	\$2.75
3 lb. size.....	.35	3.25
4 lb. size.....	.40	3.75

Mr. Frank Kaiss, Lausdowne, Md., writes under date of October 4, 1913: "Your I. X. L. Tomato Seed produced the finest early Tomatoes I ever raised. They stayed large from the time we commenced to pick until the last."



## WIRE HANGING BASKETS AND WINDOW SHELVES.

Help make the city beautiful by installing wire hanging baskets and window shelves filled with beautiful flowers. Made of good heavy wire painted green and decorated in gold bronze. See illustration. Baskets, 8 in., 25c.; 10 in., 35c.; 12 in., 50c. Window Shelves, 26x36 in., \$1.00.



## WHEELBARROWS, CARTS, WATER TRUCKS, ETC.

No. 4 Wheelbarrow, Boy size. Identical with No. 3, only much smaller; handy for small place. Price, \$2.75.



No. 3 Garden Wheelbarrow.

No. 3 Wheelbarrows, for Garden and Farm Use. A durable, neat garden barrow. Size of body, 26 in. long, 19 in. wide in front, 22 in. wide at back. Sideboards, 27 in. long, 12 in. high; handles, 4 ft. 9 in. long; 2x1½ in. wheel; 20 in. diameter; 6 spokes, \$3.50.

No. 2 Garden and Farm Barrow. Little larger than No. 3. Price, \$3.75.

No. 1 Farm Barrow. Still larger than No. 2. Price, \$4.50.



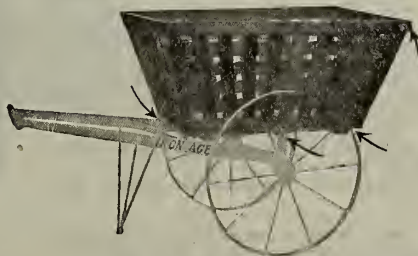
Water Truck and Combination. Fig. 1.

Fig. 1 represents our Barrel Cart, to which can be attached any Barrel Spray Pump. This is a convenient combination, and may be found useful in various ways, such as watering gardens, spraying fruit trees, etc. Price, \$9.50.

Fig. 2 shows Truck with Leaf Rack Attachment. Price, \$12.00.

Fig. 3 shows Truck and Box.

Box Inside Measure, width 22½ in.; length, 24 in.; height, 8½ in. Box has tail door. Price, \$9.50.



Leaf Rack. Fig. 2.

**Baltimore Push Cart.** For the merchant, printer, farmer, etc., to have one of these carts on his premises it will be found a most useful vehicle. There are so many purposes for which they can be employed—carrying bundles, printers' forms, farmers' tools and light implements, etc. It is never out of place, and is always ready to pick up at short notice. Price, \$7.75.

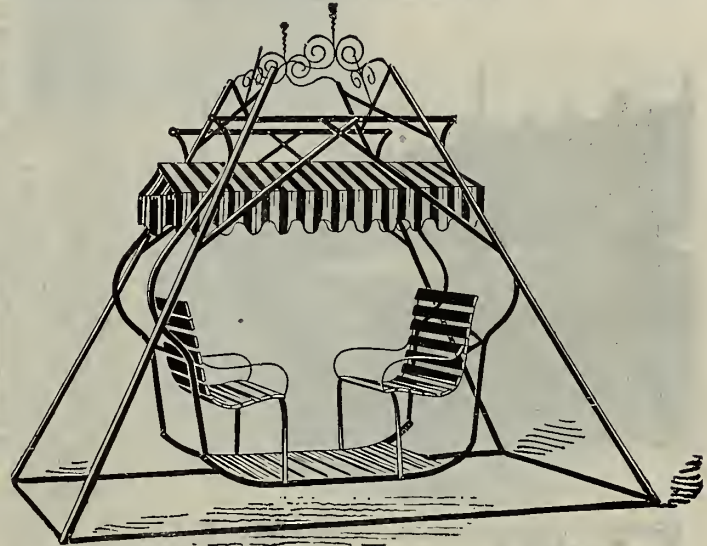


Box. Fig. 3.

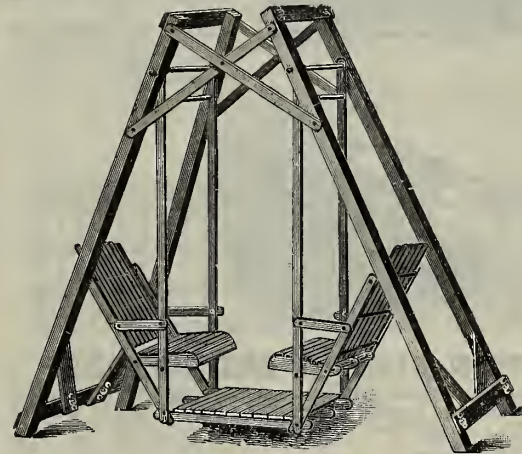
Box—Inside Measure:

Dimensions:  
Width of Tire..... 1½ inches  
Height of Wheel..... 36 inches  
Axle ..... 1½ inches  
Hub ..... 6 inches

Length ..... 40 inches  
Width ..... 22 inches  
Depth ..... 10 inches



**"Eagle Lawn Swing."** This is an all-steel high swing, very strong and at the same time very neat. It has two large, roomy seats and will hold four passengers very comfortably. No jagged corners, no tilting motion; awning over seats. The best steel swing on the market. Price, \$12.50.



### "Rock-A-Bye"

Made for durability and wear. A far superior article to the ones bought in department stores. Price of two-passenger swing, \$5; four-passenger, \$6.50.

E. Z. Ghies' Settee. Four-passenger low-down lawn and porch swing. Extreme length of swing 6 ft. 10 in., width 3 ft. 4 in. Price, \$11; with canopy, \$5 extra.

## DUNHAM WATER BALLAST ROLLERS.

The proper roller for most any occasion; fill it with water or sand, which will weigh it any number of pounds desired; 24 in. diameter, can be had in one or two sections. Equipped with counter balanced handle weights, which always keeps the handle in position ready for use; roller axle bearings. You can make it as heavy or as light as you wish. The drum can be filled with an ordinary garden hose, when through for the season pour the water out and the roller is easy to put away.

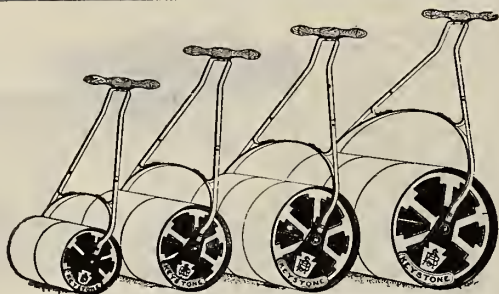
	Diam.	Width	Weight Empty	Weight filled with Water	Price
No. WB. 5.....	8	24	75	300	\$10.00
No. WB. 7.....	24	24	125	800	12.75
No. WB. 9.....	24	32	140	1000	15.25

We can also supply other sizes of Water Ballast Rollers.

(Lawn Rollers continued on next page.)

On December 6th, 1913, Mr. J. W. Zimmerman, of Montebello Park quotes as follows: "I planted your Roland Park Lawn Grass Seed to make a new lawn in September 15th. It has been cut three times, and could be cut again if the season was not so far advanced."





**Keystone Roller Bearing Lawn Rollers.** To raise a velvety, thick lawn and keep it so the lawn roller is a great aid. In the Spring, after a season of freezing and thawing, the ground becomes uneven and porous, and receding from the grass roots. If allowed to settle of its own accord the lawn is left rough and the grass liable to die off in high spots. If pressed back firmly and evenly with a lawn roller the chances for a new, velvety lawn are more favorable.

No. 501, diam. 15 in., 2 sec., weight 150 lbs., length 15 in., \$ 8.50

No. 504, diam. 20 in., 2 sec., weight 250 lbs., length 20 in., \$11.50

No. 507, diam. 20 in., 2 sec., weight 300 lbs., length 24 in., \$14.50

No. 509, diam. 24 in., 2 sec., weight 400 lbs., length 20 in., \$19.50

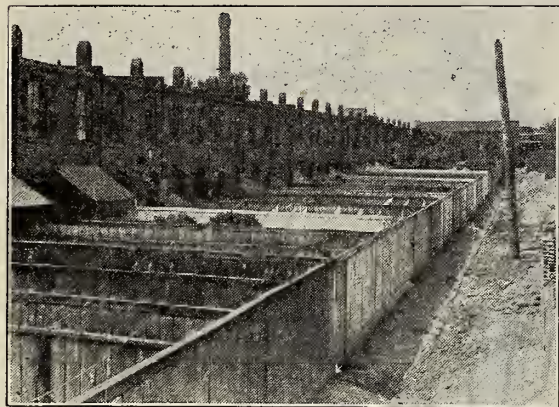
**Lawn Padders.** Very useful in padding down seed, where a roller cannot be used. Two strong boards, 9 3/4 in. by 20 in., arranged each with a rope attached to the feet. Price, complete, \$1.00 per pair.

**Horse Lawn and Field Rollers and Other Size Hand Rollers.** Prices furnished upon application.

## Waukegan-Cyclone Sanitary Wire Fencing

Note the remarkable change shown in these two pictures. These pictures show back-yards in Baltimore that come back to the same alley. On the left is the unsightly, unsanitary tight board fence, that hides dirt, disease germs, rubbish and filth. On the right WAUKEGAN-CYCLONE Sanitary Fencing has replaced the old board fences and opened up the yards to fresh air and sunlight.

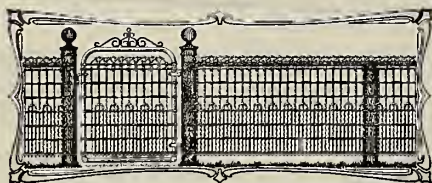
WAUKEGAN-CYCLONE Sanitary Fence actually cost less money than tight board fence. Dark unsanitary back-yards are changed into blocks of flower-beds, gardens and lawns and happy children's playgrounds. Danger from fire is lessened. The health of the family is preserved and the property doubled in value.



BEFORE.



AFTER.



Style "F" is our most popular sanitary wire fence. Pickets are all No. 9 heavily galvanized wire, spaced 1 3/4 in. apart at bottom, 2 3/4 in. at top, making fence absolutely chicken tight.

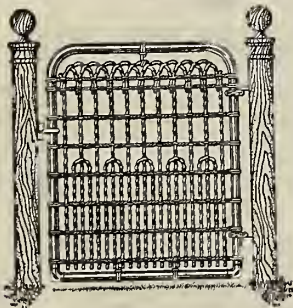
Regular heights are 36 in., 42 in. and 48 in. Other heights up to 84 in. furnished.

Price per lineal foot, Style "F," 36 in., 10c; 42 in., 11c.; 48 in., 12c. Three foot walk gate to match, \$2.50.



### PERFECTION FLOWER-BED BORDER.

Fits any shape or size of flower-bed, no posts required. Cut to any length. Bottoms of pickets left straight to be inserted in the ground. Made in two heights. Price, per lineal foot, 16 in., 5c.; 22 in., 6c.



### UNIVERSAL WALK GATE.

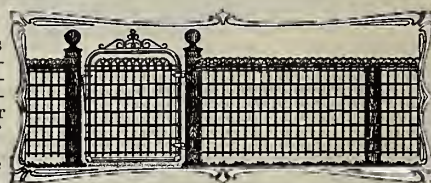
Made of heavy high-carbon steel tubing, non-breakable frame with Style "F," chicken-tight fabric; hinges and latch to hang to wood posts.

Heights, 36 in., 42 in. and 48 in. Price for 3 foot opening, \$2.00.

Style "L-Extra" is exactly like Style "F," only the lower picket is not used. For this reason it is slightly cheaper in price and is specially recommended for division fences for front or back yards.

Regular heights are 36 in., 42 in. and 48 in. Other heights up to 84 in. furnished.

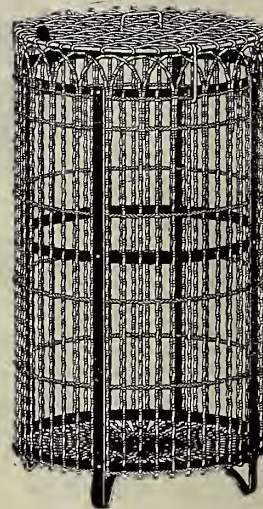
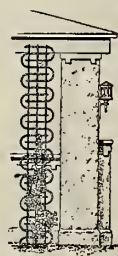
Price per lineal foot, Style "L-Extra," 36 in., 8c.; 42 in., 9c.; 48 in., 10c. Three foot walk gate to match, \$2.50.



### SINGLE TRELLIS

Just the thing for climbing plants and flowers. Cut to any length, fits any porch. The most inexpensive practical trellis made. Furnished in two widths.

Price, per lineal foot, 18 in., 5c.; 24 in., 6c.



### RUBBISH CONSUMERS.

Burns waste paper, rubbish and all combustible materials without scattering and without danger from fire.

Made of large heavily galvanized wire with re-inforced bottoms and sides, and inside iron rings.

Made in two sizes:

Height, 36 in.; diameter, 28 in. Price, \$2.25.

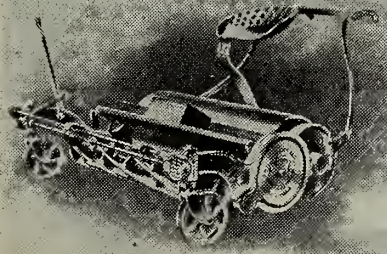
Height, 28 in.; diameter, 18 in. Price, \$1.55.

**Wire Tree Guard.** Carefully galvanized, thoroughly made, 8 inches diameter, \$1.25 each; per doz., \$13.50.

Mrs. George R. Willis, of Bengles, Md., writes us: Gentlemen— I want to say to you that I have had better success with your Sweet Pea Mixture than any I have ever bought.



## Coldwell's "Improved" Horse Lawn Mower



This well-known standard mower has side draft attachment that enables the horse to walk on the cut grass only, and caster rollers which will not mark the lawn. Evenness of cut is assured by an adjustment which raises or lowers the two sides at the same time by means of a simple lever movement. This same lever serves the purpose of raising the knives from the ground when driving over the gravel walks or roads. Prices: 25-in. cut (no shafts), \$33; 30-in. cut (complete), with seat and shaft, \$60.

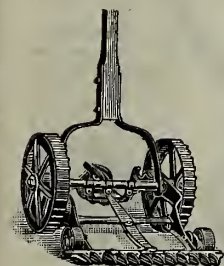
**Coldwell Demountable Cutter Unit Horse Lawn Mower.** Like the above, but has two revolving cutters, which can be replaced very quickly. 30-in. machine, \$100.

**The "Clipper" Mower.** There are three things that tend to destroy your lawns—dandelions, buck plantains and crab grass. In one season the Clipper will drive them all out. No. 1, 12-in. cut, \$6.75; No. 2, 15-in. cut, \$7.50; No. 3, 18-in. cut, \$8.50; No. 4, 24-in. cut, \$9.50.

**Pony Mower, 24-in. cut, \$20.00.**

**LAWN MOWER SHARPENING.** This work is done for us by a competent mechanic, and we can insure entire satisfaction.

**Coldwell's Combination Roller and Motor Lawn Mower, Style F,** is designed for use on small estates, tennis grounds, etc., not sufficiently large to warrant the purchase or use of one of the larger and heavier machines.



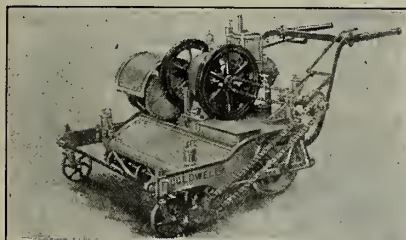
This machine cuts a swath 40 in. wide, is equipped with a two-horsepower motor, capable of propelling the motor through almost any height of lawn grass and up grades as steep as twenty-five per cent. It is also equipped with Coldwell's patented demountable cutting unit.

This device is an extra cutter part composed of the revolving and stationary knives and the necessary parts to carry them, which can be removed from the machine in a few moments and replaced by the other unit, which is shipped with this mower at no extra charge.

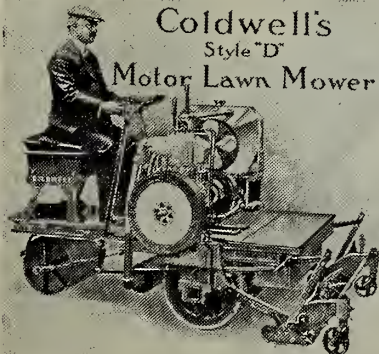
It is also equipped with a new patented device for raising the knives when crossing gravel walks, roads, etc., thus protecting them from injury.

Clutches are provided to throw the traction rollers, as well as the revolving cutters in and out of gear. The workmanship and finish of this mower is guaranteed. Price, \$475.00.

Style F.



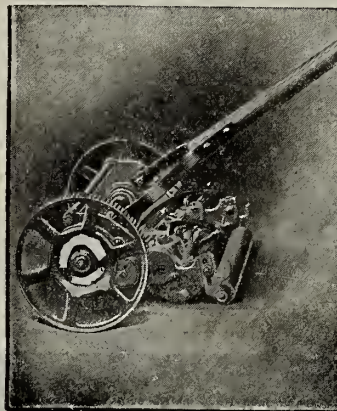
## Coldwell's Style "D" Motor Lawn Mower



**Coldwell Trimmer Mower.** This is an excellent machine for trimming around flower beds, shrubbery and walk edges. The revolving cutter is 6 in. wide, and cuts within 1/4 in. of side obstruction, it has only one drive wheel. Price, \$5.00.

**Pennsylvania High Wheel Mower.** This high-grade mower is constructed for cutting ordinary grass, as well as grass from 6 in. to 10 in. high. Wheel, 10 1/2 in.; cylinder, 6 1/2 in. Four crucible steel knives. Price, 15 in., \$12.50; 17 in., \$14.00; 19 in., \$15.50; 21 in., \$17.00.

## M. & S. HAND LAWN MOWER.



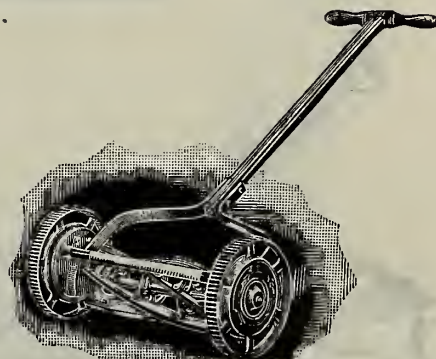
**M. & S. "Regal" Ball Bearing Lawn Mower.** This machine has been thoroughly tried out by us the past three years. We are glad to say that it has made good in every way. Hundreds of our customers have assured us of the superiority of this machine.

Prices: 14-in. cut, \$9; 16-in. cut, \$10; 18-in. cut, \$11; 20-in. cut, \$12.

**M. & S. "Interstate" Ball Bearing Lawn Mower.** First-class, high wheel, ball bearing lawn mower at a popular price. The four revolving knives give a continuous cut. Made of best materials, easy running, and fully warranted.

Prices: 14-in. cut, \$6; 16-in. cut, \$7; 18-in. cut, \$7.50; 20-in. cut, \$8.

Send your Lawn Mowers in to us to be sharpened. We do this thoroughly and reasonably.



M. & S. "Interstate."

**M. & S. "Colonial" Ball Bearing Lawn Mower.** A grand little machine that runs so easy that it can be operated by a lady or child. The four revolving cutter blades are made of the finest material.

Prices: 12-in. cut, \$4.25; 14-in. cut, \$4.75; 16-in. cut, \$5.00.

**The "Baby Grand" Mower.** A perfect little lawn mower of fine quality; excellent for cutting borders and handy for children and ladies. Price, 6-in. cut, \$4.00.

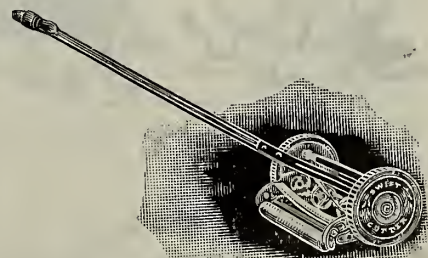


The "Colonial" Lawn Mower Ball Bearing

**M. & S. "Swift Cutter" Lawn Mower.** For the benefit of those who want a low-priced mower, and for those who have but little grass to cut, we offer the best cheap mower made. While the prices are as low as "department store" prices, this mower will be found much better in quality of knives and quality of work performed.

Prices: 10-in. cut, \$2; 12-in. cut, \$2.25; 14-in. cut, \$2.75; 16-in. cut, \$3.25.

**Horse Lawn Boots.** Price, per set of four, \$9.00; No. 2, 5 1/2 in. inside; No. 4, 6 1/2 in. inside; No. 6, 7 in. inside. Oil Cans, filled with oil, 15c. each.



M. & S. "Swift Cutter."

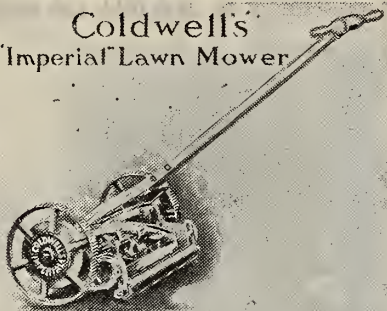
Miss Elsie Varley, Garden Superintendent of the Women's Civic League, quotes: Gentlemen: All the Vegetables and Flower Seeds, as well as Plants, which we secured from you, have proven very satisfactory and have helped us greatly in our work.



**Coldwell "Imperial" High Wheel Mower.** For durability and for hard, rough work this is the mower to buy. Thousands are in use in city parks and cemeteries throughout the country. The best non-ball-bearing mower ever made.

Prices: 14-in. cut, \$8; 16-in. cut, \$9; 18-in. \$10; 20-in. cut, \$11.

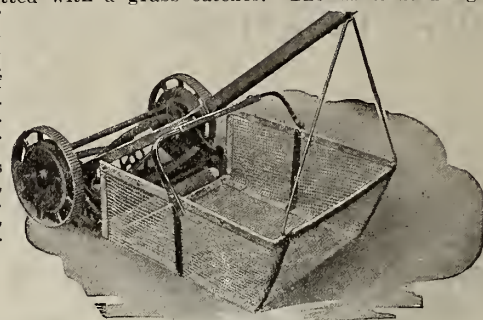
### Coldwell's "Imperial" Lawn Mower



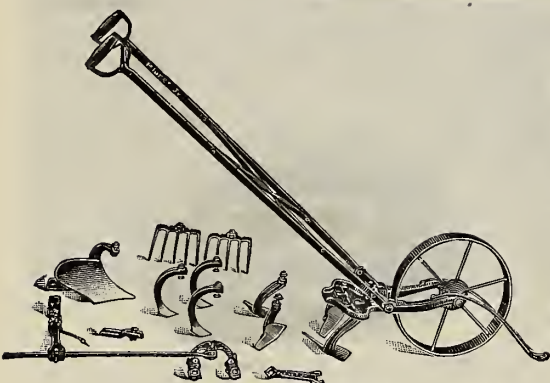
### THE M. & S. WIRE GRASS CATCHER.

There always have been makes of mowers on the market that could not be properly fitted with a grass catcher. The M. & S. designed to fit any size or style mower and can be attached or detached in a moment. Made of galvanized iron. Hardware cloth. Fits any mower. Price, \$1.00.

**Canvas Grass Catcher.** No. 1, 85c., for 12 in. to 16 in. mowers; No. 2, \$1, for 16 in. to 20 in. mowers.



## Planet Jr. Garden Tools



"Planet, Jr." Single Wheel Hoe.

**No. 30. "Planet, Jr." Wheel Hoe** (as illustrated.) This tool has a 15-inch wheel, and the wheel, the frame and the handles are all made of steel, so the tool is at once light and strong and almost indestructible. It is the best Single-wheel Hoe made and has the fullest equipment. Price, \$3.00.



Single Wheel Hoe.

**Jr.** Same as No. 17, but has no plow, but in addition has a leaf lifter. Price, \$4.50.

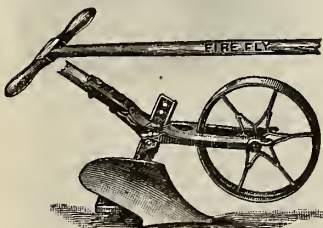
**No. 18. "Planet, Jr."** Only equipped with one pair 6-inch hoes. Price, \$3.50. The No. 17 is the most popular tool.

**No. 12. "Planet, Jr." Double Wheel Hoe.** As illustrated, with one pair 6-inch hoes, four cultivator teeth, two plows, two leaf lifters. Price, \$7.00.

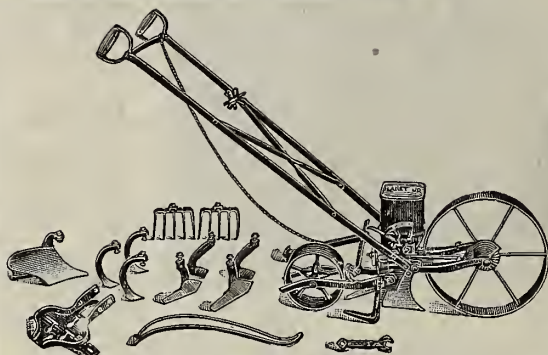


"Planet, Jr." Double Wheel Hoe.

**No. 13. "Planet, Jr."** Only equipped with one pair 6-inch hoes. Price, \$4.75. The No. 12 is the most popular tool.



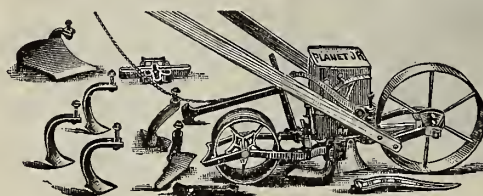
**"Planet, Jr." "Firefly" Garden Plow.** Very useful for small gardens. Will throw a furrow 4 to 6 inches wide and 1 to 3 inches deep, and deeper by going twice. Furrows for manure or seed can be opened and covered. Chicken raisers find it of great advantage in plowing up the scratching yards. Price, \$2.35.



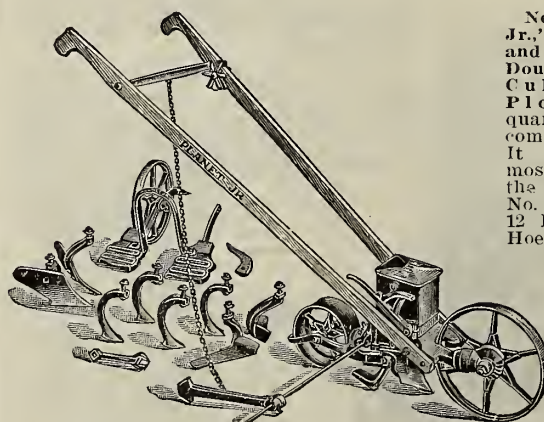
"Planet, Jr." Seeder and Wheel Hoe.

**No. 28. "Planet Jr." Seeder and Wheel Hoe**, (as illustrated.) This is our latest and best Combined Hill and Drill Seeder and Single Wheel Hoe.

Construction similar to the No. 30 wheel. Price, \$15.00.



**No. 4. "Planet, Jr." Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow** (as illustrated.) Steel driving wheel, weight complete, 53 lbs. Holds 2½ qts. Equipment one pair of 4½-inch hoes, three cultivator teeth, one garden plow, one leaf guard. Price, as a Seeder only, \$9.00; complete, \$11.00.



**No. 25. "Planet, Jr." Combined Hill and Drill Seeder, Double Wheel Hoe, Cultivator and Plow.** Holds 2½ quarts. Weight, complete, 59 pounds. It combines in a most practical way the "Planet, Jr." No. 4 Drill and No. 12 Double Wheel Hoe.

**Equipment:** One pair of 6-inch hoes, two pairs of cultivator teeth, two plows, two leaf guards. Price, \$13.50.

### GRASS AND CLOVER SEED SOWERS.

**Hand Seed Sower.** Valuable for sowing vegetable, flower and lawn seed. Will distribute seed evenly. Adjustable. Price, 25c.

**Cahoon Seeder.** For sowing clover, grass and other seeds. Price, \$3.00.

**Wheelbarrow Seeder.** 14 ft., \$6.50; 16 ft., \$6.75; double hopper, 14 ft., \$8.50.

Mr. R. J. Williams, Brooklyn, Anne Arundel County, Md., says: tomatoes for me, and extremely early.

Gentlemen: Your I. X. L. Tomato Seed certainly turned out beautiful



"Planet, Jr." Grass Edger. Price, \$6.25. Extreme Neatness is the great secret of attractiveness in grounds surrounding a house. The "Planet, Jr." Grass Edger assists wonderfully in producing this effect. It will edge either straight or curved work, paths, drives, open borders or flower beds, doing the work well and rapidly when ground is in order, as after rain. Price, \$6.25.

Strawberry growers find the grass edger disc attachment a rapid and excellent tool also for cutting off surplus runners. Goes on all hand tools. Price, \$1.35.



No. 19 C. Iron Age Single Wheel Cultivator and Plow. A good investment for any gardener, whether he is an amateur, an old-time home gardener or a market gardener; but is especially recommended to the man who has never tried any and wants a low price tool to begin with. Price, complete, \$3.50.

The "Monogram" Garden Cultivator. Good light tool for ladies or children; equipped with plow, hoe, rake, cultivator and furrower. Price, complete, \$1.50.

Send your Lawn Mowers in to us to be sharpened. We have a skilled mechanic who does this.

## PLOWS, CULTIVATORS, REPAIRS, ETC.

Single, Double and Triple Trees. Made of White Oak, painted. 28-in. single tree, 40c.; 30-in., 50c.; 32-in., 60c.; 34-in. double tree, 75c.; 36-in., 90c.; triple trees, \$1.50 each; open flukes, 10c. each.

### Shovel Plows—

"Malta" Double Shovel Plow.....\$2.50  
"Malta" Single Shovel Plow.....2.25  
Triple Shovel Plow.....3.00



Fig. 1.

One-Horse Southbend Chilled Plow, Fig. 1. Strong, light and durable; furnished only right-hand. Price, \$6.00.

Oliver Pattern Wood and Steel Beam Plows. In fit, quality and finish, guaranteed the equal of the best. List price for Oliver Pattern Plows and Repairs:

	Wood Beam Plow	Steel Beam Plow	Shares	Slip Shares	Slips	Lands	Mould-boards	Wood Beams
No. A...	\$5.50	\$6.00	\$ .20	\$ .25	\$ .10	\$ .45	\$1.35	\$1.25
No. B...	7.25	7.50	.25	.30	.10	.60	1.85	1.25
No. 10...	8.50	8.50	.25	.35	.10	.70	2.25	1.25
No. 13...	9.50	9.75	.30	.40	.10	.75	2.50	1.75
No. 19...	10.00	10.50	.30	.40	.10	.85	2.75	1.75
No. 20...	10.50	11.00	.35	.45	.10	.85	3.00	1.75
No. E...	11.00	12.00	.40	.50	.10	.85	3.25	1.75
No. 40...	11.00	12.00	.40	.50	.10	.85	3.25	1.75

In ordering, mention "Wood" or "Steel" beam, right or left-hand. Prices for plows include extra Share and Wrench. Wheel, complete, \$1.00; Jointer, complete, \$2.00; Castor Rolling Coulter, \$3.00.

We can also furnish the "Syracuse" and other leading plows and the Repairs. Prices will be furnished on application.



Fig. 19.



Fig. 17.



Mehler's Edger. Fig. 19. The most perfect tool for cleaving out and edging up the sides of cement walks. This is the only tool of its kind found so far to be practical. It is made of the best steel, is very sharp and can be re-sharpened readily when dull. Price, \$1.00 each.

Mehler Gardener. Fig. 17. An entirely distinct tool; avoids bending the back, works closer to the plant than any other device. No hoe is needed where this is used; just the thing for working among flower and vegetable plants. Price, 75c. each.



Fig. 18.

Mehler Hoe. Fig. 18. Combination hoe, cultivator and soil pulverizer combined. Just the thing for celery culture. Price, 75c.

## NORCROSS CULTIVATOR-HOES AND WEEDERS.



are among the most modern tools for garden and flowers. They are light and strong and cultivate closer to plants without injuring them than any other kind of implement, leaving the soil level, loose and untrampled.

Cost but little more than the common hoe—accomplish much more and better work with less labor. They cultivate the soil.

Use on handle or attach to a Wheel Plow.

The "Norcross" 5-prong is the only Cultivator-hoe with detachable ferrule (pat'd) whereby 4-foot handle will detach and by means of "Norcross" Universal Connection at a cost of 10c. extra. Cultivator may be attached to the standard types of Wheel Plows. Above it is shown attached to an Iron Age.

This connection also has a rear extension for attaching to Plows of Vertical Leg Construction.



The "Norcross" line is of the highest quality and finish throughout.

Three sizes and prices:  
5-pronged, 4 ft. hdl....75c  
3-pronged, 4 ft. hdl....50c  
"Midget" 9 in. hdl....25c.

3 lbs., 2 lbs., 12 oz.  
Detachable Steel Prongs.  
Malleable Head.  
Extra High-grade Handles.

Mr. John Vogt, Fullerton, Md., writes: Gentlemen: Chalk's Early Jewel and B. B. Tomato made the handsomest crop of tomatoes for me that I have ever seen.



## DIAMOND POINT CULTIVATOR TEETH AND REPAIRS.

	Price:		Price:
Diamond Point.....	\$.07½	Horse Hoe Steels, R. & L.,	
Diamond Point, 2 in....	.08½	each .....	\$.20
Diamond Point, 2½ in....	.08½	Turn Shovels, R. & L., each	.15
Diamond Point, 3 in....	.09	Cultivator Clamps.....	.30
Diamond Point 4 in....	.11	Set Screw Cultivator Clamps	.25
Oval or Jersey.....	.10	Sweeps—8 in.....	.20
"Planet, Jr.," 7-inch Hnd		10 in.....	.22
Shovel .....	.25	12 in.....	.25
"Planet, Jr.," 8-inch Hnd		15 in.....	.30
Shovel .....	.30	18 in.....	.40
Frame and Teeth Bolts....	.03	Cultivator Handles, complete	.75

## "PLANET, JR.," CULTIVATOR TEETH, OR STEELS.

	Price:		Price:
1¼ x 8-in. Steels.....	.09	1¼ x 10-in. Steels.....	\$.13
1½ x 8-in. " .....	.10	1½ x 10-in. " .....	.14
2¼ x 8-in. " .....	.11	2¼ x 10-in. " .....	.17
3 x 8-in. " .....	.12	3 x 10-in. " .....	.19
4 x 8-in. " .....	.13	4 x 10-in. " .....	.22

No. 4. "Planet, Jr.," Horse Hoe and Cultivator. Fig. 2. This tool is low in price, strong and simple. It is the modern cultivator for either garden or field use, for furrowing, covering and cultivating, being adjustable to these several purposes. Furnished with or without the wheel. Price, with steel wheel, \$6.75; without wheel, \$5.75.

No. 4. "Planet, Jr.," Plain 5-Tooth Cultivator. This popular tool has been much stiffened and improved by new patent braces and expanders. Price, with steel wheel, \$5.50; without wheel, \$4.50.

No. 9. "Planet, Jr.," Horse Hoe and Cultivator. Identical with the above, but has lever expander. Price, with steel wheel, \$8.00.

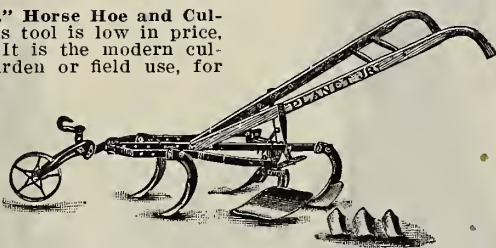
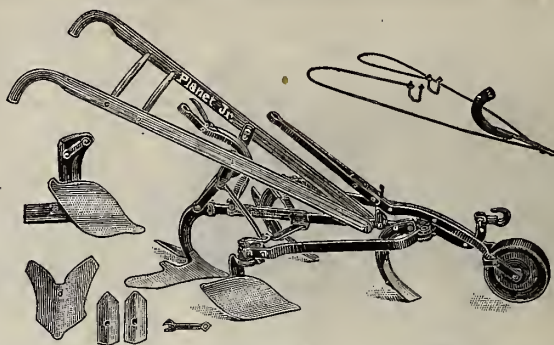


Fig. 2.



No. 10.

No. 10. The Great New "Planet, Jr.," Combination Farm and Garden Horse Hoe, Cultivator, Furrower, Plow and Vine Turner. Equipment—Three 3x8-inch cultivator teeth, one pair 6-inch hillers, one plow attachment, one 15-inch fingered sweep, one 10-inch furrower, one vine turner, lever expander and lever wheel. Price, complete, as in cut, \$13.00.



"Planet, Jr.," Twelve-Tooth Harrow, Cultivator and Pulverizer. This tool has rapidly grown in favor with strawberry growers, market gardeners, truckers and farmers because the twelve chisel-shaped teeth do such thorough work, and because the tool

is so convenient, durable, strong and complete. This tool expands to 32 inches and contracts to 12 inches. Price, complete, as is illustrated, \$9.25; less pulverizer, \$7.65; less pulverizer and wheel, \$6.20. Plain, without lever expander or wheel, \$5.00.

Fourteen-Tooth Plain Harrow and Cultivator. Price, \$3.00.

New Market 5-Tooth Cultivator. Extra strong tool. Price, less wheel, \$2.50.

## REQUISITES FOR THE STABLE AND DAIRY

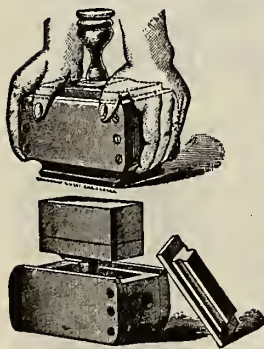


Fig. 4.

Philadelphia Butter Printer. Fig. 4. 1 lb., \$1.50; ½ lb., \$1.00. Initial or special monogram, \$1.50 extra.

Butter Printers. ½-lb. size, round or square, 25c. each.

Lafayette Butter Printer and Table. Either pound or half-pound size, with table, \$15.00; without table, \$10.00. Initial or monogram, \$1.50 extra.

Parchment Butter Paper. Cut for pound and half-pound prints. Price, 20c. lb. Special price on quantities.

Floating Dairy Thermometer. Price, 25c. Fig. 5.

Wells, Richardson & Co.'s Butter Color. The best butter color on the market. Small bottle colors 500 lbs., 25c.; large bottle, 50c. and \$1.00.

Pratt's Animal Regulator is a regulator, digestive and mild tonic. The ingredients consist of pure medicinal roots, herbs and barks, carefully blended in the exact proportions necessary to gently but surely act on the blood, bowels, liver and digestive organs of horses, cows, sheep and hogs. It causes perfect digestion.

Ordinarily a great quantity of food given to stock is wasted on account of imperfect assimilation. Pratt's Animal Regulator stops that at once. The worst run-down animal can be given Pratt's Animal Regulator according to directions, and an improvement will be seen almost at once. Pkg., 25c. and 50c.; bags, 75c. and \$1.50.



For good results always sow M. & S. Special Grass Mixture for Hay and Pasture

Pratt's Worm Powders, for destroying worms in horses, cows, hogs and sheep. 50c. box.

Pratt's Liniment, for man or beast. 25c. bottle. Liquid.

Pratt's Healing Ointment, for man or beast, 25c. box.

Pratt's Healing Powder, for harness galls, 25c. box.

Cal-Sino Restorative Powder for Horses. Lessens and expels clogged catarrhal and stagnant waste matter. Price, 50c.; 25 lbs., \$4.00.

Cal-Sino Aperient. For dairy cows or cattle to be fattened—it cannot be excelled. Pkg., 25c.; 25 lbs., \$4.00.

Cal-Sino Restorative for Swine. Disinfects the bowels, expels worms, regulates nutrition and thereby promotes health and flesh production. Pkg., 50c.; 25 lbs., \$4.50.

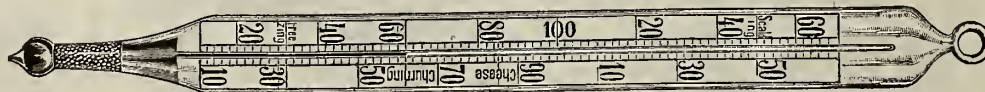


Fig. 5.

## HEADQUARTERS FOR PARCEL POST EGG AND BUTTER BOXES

For P. P. Egg Boxes see page 57.

Dairy Supplies Continued on next page.

For P. P. Egg Boxes see page 57.

Morganza, Md., April 1st, 1914. Gentlemen: I have used your Parcel Post Egg Crates and have shipped by parcel post extensively and find them satisfactory.

Z. JOHNSON.



# Write for Special Catalog on Cream Separators



No. 1.

"Star" Cooler Cream Separator Fig. 1. Two cans, one inside of the other. The inner can is for milk and the outer can is for water. Great labor saver. The outer cans are painted and decorated.

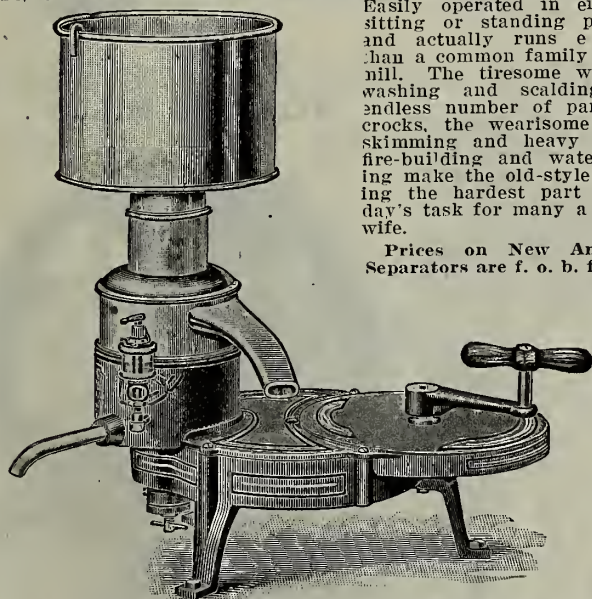
No. 000, 14 qts. ....\$3.50  
No. 00, 20 qts. .... 4.00  
No. 01, 25 qts. .... 4.50  
No. 01½, 35 qts. .... 5.00  
No. 02, 45 qts. .... 6.25  
No. 03, 65 qts. .... 7.50

"Star" Gravity Cream Separator. Like the above, but only one can. Made of the very best XXXX tin. The milk is mixed with equal quantity of water. Get cream in two or three hours. Not painted.

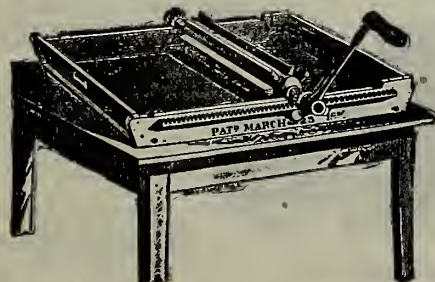
No. 0, 24 qts. ....\$3.00  
No. 1, 43 qts. .... 3.75  
No. 2, 88 qts. .... 4.50  
No. 3, 118 qts. .... 5.50

Prices on Milk Cans, Pails and other Dairy Supplies on application.

The New American Wonder Cream Separator. The latest, most scientific, smallest and most compact cream separator ever designed.



No. 10. Capacity, 1 quart per minute or 125 lbs. per hour. Price, \$15.95.  
No. 11. Capacity, 15 quarts in ten minutes or 200 lbs. per hour. Price, \$19.75.  
No. 12. Capacity, 23 quarts in ten minutes or 300 lbs. per hour. Price, \$24.95.  
No. 1. Low-down; capacity, 400 lbs. per hour. Price, \$37.75.  
No. 2. Low-down; capacity, 550 lbs. per hour. Price, \$42.50  
No. 3. Low-down; capacity, 700 lbs. per hour. Price, \$47.50



Reid's Butter Worker. This machine acts on the butter on precisely the same principle as a ladle in the hands of a person, but with perfect uniformity and without injuring the grain. Made of the best material; iron parts galvanized, preventing rust.

No. 1—50 lbs. ....\$8.00  
No. 2—30 lbs. .... 6.40  
No. 3—20 lbs. .... 5.60  
No. 4—10 lbs. .... 4.80

Butter Boxes. These boxes are iron bound at

the edges and capped at the corners. An ice box is fitted in the centre, which can be removed at will and the space utilized. Prices in next column.

Gentlemen: I think it may be of some interest to you to know that I have had wonderful results with your pure culture Mushroom Spawn.  
Most respectfully,  
MRS. J. J. GEORGE, Long Green, Md.

36 ½-lb. prints. ....\$4.50  
64 ½-lb. prints. .... 5.25  
80 ½-lb. prints. .... 5.50  
100 ½-lb. prints. .... 6.00  
120 ½-lb. prints. .... 6.50  
140 ½-lb. prints. .... 7.00

20-lbs. prints. ....\$3.75  
30-lbs. prints. .... 4.25  
40-lbs. prints. .... 4.75  
56-lbs. prints. .... 5.00  
80-lbs. prints. .... 5.50  
96-lbs. prints. .... 6.00

Dazey Glass Family Churn. Fig. 2. Easy running, easy to clean, produces the finest butter that can be made. No. 30G, churning 1½ qt., \$2.50; No. 40G, 2½ qt., \$3.00.

Dazey Dairy Size. Tin can instead of glass, like the above.  
No. 1 D. Z., churning from one to four gallons, \$6.00; No. 2 D. Z., churning from one quart to two gallons, \$4.25. Fig. 3.

Improved Cedar Wood Cylinder Churn.

No. 1, 2½ gal. ....\$2.25  
No. 2, 4 gal. .... 2.75  
No. 3, 7 gal. .... 3.25  
No. 4, 10½ gal. .... 3.75

Brick Butter Mold. Seeley Pattern. Furnished with sheaf of wheat. Movable block. ½ lb., 60c.; 1 lb., 75c.



Fig. 3.

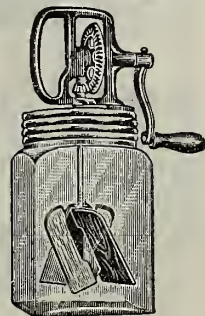


Fig. 2.

## POLISHED MAPLE BOWLS

Bowls, 15 inches....35c.  
Bowls, 17 inches....55c.  
Bowls, 19 inches....75c.

Rice's Calf Weaner. Fig. 6. Very effective for weaning calves and preventing cows sucking themselves.  
No. 1, for calves, 35c.; by mail, 30c.  
No. 2, for heifers, 40c.; by mail, 50c.  
No. 3, for cows, 60c.; by mail, 70c.

Shaw's Calf Weaners, or Muzzle. The Shaw's Calf Weaner is thoroughly practical. The action is entirely in the basket, it being hinged to the end of the nose piece. The basket is made of heavy galvanized wire, with extra bars running through. The halter that goes over the neck is made of solid leather, and can be adjusted to suit the calf's head. Prices—No. 1, 25c.; No. 2, 35c.; No. 3, 50c.

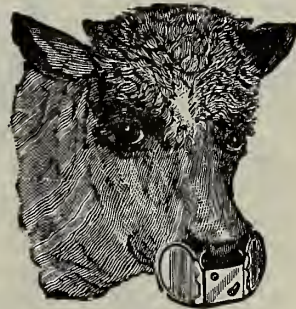


Fig. 6.

Bull Rings. Gun metal, \$1.25; copper, 25c. Different sizes.

"NO FLIES HERE."



A liquid designed to protect cows, oxen, horses, mules and all live stock from flies and other insects, and to drive and keep them off.

1 gallon. ....\$1.50  
½ gallon. .... .85  
1 quart. .... .50

Plain Sprayer. For applying "No Flies Here," 40c. each.

Continuous Sprayer. A great improvement over the plain sprayer. Tin, 75c.; brass, \$1.00.

Bitter Lick. For horses and cattle of all kinds. Price of brick, 25c.; doz., \$2.50.

Holders for Bitter Lick Brick, made of iron and japanned black. Price, each, 20c.; doz., \$2.00.

**BITTER LICK**  
MEDICATED  
**Salt Brick**



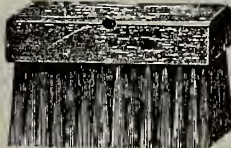
The Great  
Conditioner.  
Boric. Digestor  
& Worm Destroyer.

## OILS AND AXLE GREASE.

Harness Oil "Eureka." Pt., 25c.  
Cream Separator Oil. Qt., 25c.; 2 qts., 40c.; gal., 75c.  
Harvesting Machine Oil. Gal., 50c.  
Gasoline Engine Oil. Gal., 60c.  
Household Lubricant Oil, in can with spout ready for use, 15c.  
Mica Axle Grease. Can, 10c., 25c. and 75c.

## BLATCHFORD'S CALF MEAL.

The best milk substitute. Protein, 24 to 26%; fat, 5 to 6%; carbohydrates, 51 to 53%. Prices—25 lbs., \$1.00; 50 lbs., \$2.00; 100 lbs., \$3.50.  
Pratt's Animal Regulator. Pkg., 25c. and 50c.; bags, 75c. and \$1.50.

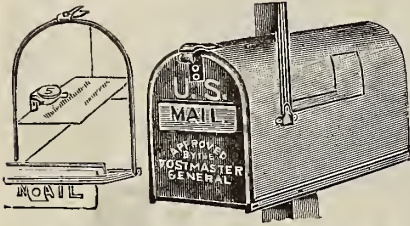


## BROOMS AND BRUSHES.

Plain Corn Broom, extra quality...\$ .45  
Bass Push Broom, 14 in. (see cut)... .50  
Bass Push Broom, 36 in. .... 1.50



## RURAL MAIL BOXES.



22. Gauge Galvanized Steel, without Inner Galvanized Box; Box has a Letter and Coin Holder for Mailing Letters when not supplied with stamps; Reinforced Rolled Ends; Drop in End of Box for Depositing Mail without Unlocking; Red Signal raised by Mail Carrier to show that he has deposited mail in the Box.

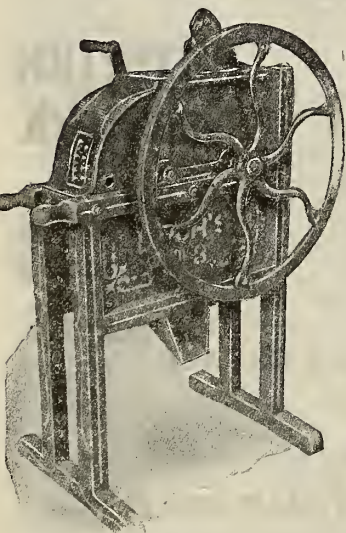
Price, 75c.

## FEED CUTTERS, CORN SHELLERS, ETC.

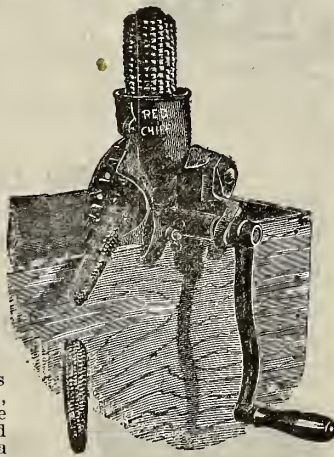
**Kokosing Revolving Cutter.** This cutter meets a long-felt want for a hand-machine that is low priced, strong, durable, well finished and at the same time, one that has good capacity, a wide throat and does its work with ease. It is made of the best material, and in the very best manner in every particular; is as durable as a power cutter and is finished like a piece of furniture. It has an 11-inch knife, a self-feed and can be changed in a moment to cut various lengths. Weight, 190 lbs. Price, \$13.50.

**Buch's Hand Lever Feed Cutter.** This cutter is simple, durable and low priced. It has a 11 in. tempered curved knife, which can be adjusted to any length of cut desired up to 3 in.; cuts either green or dry fodder. Price, \$3.00.

**Clover Cutter.** Price, with the balance wheel, \$8.00; with the balance wheel and iron stand, \$10.00.



**Red Chief Corn Sheller.** This sheller is guaranteed to do good work. It is heavy in construction, with patent oval shaped teeth, which are so arranged to shell more rapidly and avoid injuring the grain, thus making it safe for shelling seed corn. Adjust itself to any size ear. Price, each, \$1.75; weight, 12 lbs.



**Buch's Corn Sheller No. 3.** This machine will shell perfectly clean, and separate all the corn from the cobs, discharging shelled corn and cobs separately, without injuring a grain nor breaking a cob, whether the ears are large or small. Such a thing as choking is unknown. For ease of running, it has no equal. Its capacity is about 25 bushels per hour. Price, \$7.00.

## MANN'S GREEN BONE CUTTER (Latest Model)

The feed is both automatic and self-governing. Cuts all gristle and meat. Nothing escapes uncut.

No. 5C. This machine is exactly the same as the No. 5B, with a crank handle instead of a balance wheel. Capacity not quite equal to 5B. Weight, 35 lbs. Price, \$6.00.

No. 5B. This machine is exactly the same as the No. 5BM, except that it has not the iron stand. The capacity is the same. Weight, 60 lbs. Price, \$8.00.

No. 5BM. Intended for flocks of 15 to 25 hens. Mounted on iron stand. Cylinder 6 in. diameter, 4 in. deep. Cutter plate has 4 knives instead of 3. Price, \$10.40.

No. 7. Intended for flocks of 40 to 100 hens. Mounted on strong iron stand with large table for box or pan to receive cut bone. Weight, 107 lbs. Cylinder, 7 1/4 in. in diameter, 5 1/4 in. deep. Capacity, 1/2 to 1 lb. per minute. Price, \$12.00.

No. 7 1/2. Semi-power Machine. \$16.00

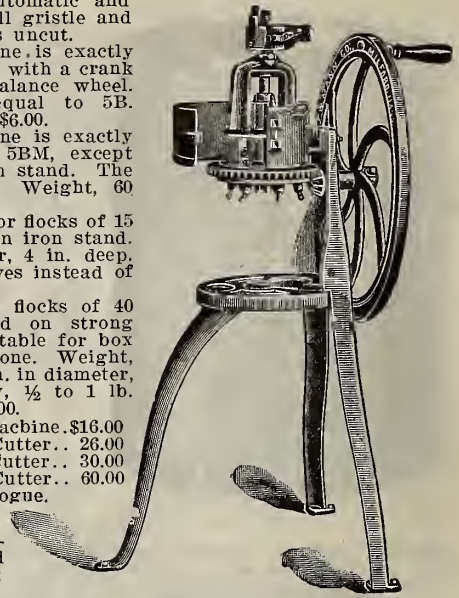
No. 11. Comb Power Cutter. 26.00

No. 12. Small Power Cutter. 30.00

No. 15. Large Power Cutter. 60.00

Send for Special Catalogue.

**Mountville Bone Mill**  
 Fine for grinding cooked bone, grains and shell. On stand, \$5.50; without stand, \$4.50.

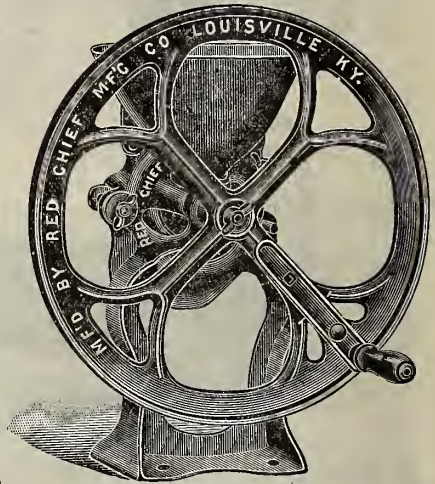


No. 7

## GRINDING MILLS.

**"Red Chief" Grinding Mill No. 10.** This mill has greater capacity than the No. 1 mill, and makes an excellent coffee and spice mill for grocers' or family use, as well as being a very rapid grinder of chicken feed or meal. Weight, 35 lbs.; capacity, 2 to 4 bus. per hour. Price, \$5.00.

**"Red Chief" Power Mill No. 20.** For grinding corn meal, graham flour, stock feed, etc. An ideal mill for grinding mixed feed. With a speed of 300 to 450 revolutions per minute, will grind 10 to 20 bushels feed per hour; 3 to 5 bushels good corn meal per hour. Power required, 1 1/2 to 2 horsepower gasoline engine or over. A hand crank for use when engine is not running. A child can grind a bushel of chicken feed by hand in 10 minutes. Tight and loose pulley, 10 in. in diameter, 2 1/4 in. face. Galvanized iron hopper. Reversible belt shift. Feed regulator. All hearings bronze bearing metal. Height, 27 in. Attractive finish; painted red and blue with bronze trimmings.

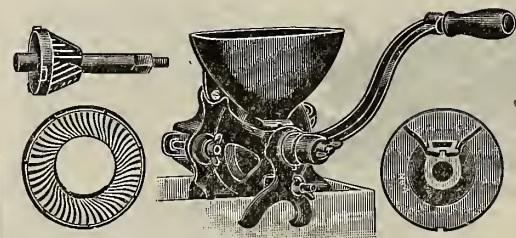


No. 10.

No wrenches or screwdrivers needed in making adjustments. Price, \$15.00.

**"Red Chief" Grinding Mill No. 1.** For cracking corn, wheat and other grain. Price, \$3.00.

**"Red Chief" No. 5.** Like above but has fly wheel. Price, \$4.00.



"Red Chief" Grinding Mill No. 1.

Edgewater Farm, McDaniel, Md., August 9, 1913. Gentlemen: I will use no other food except the Park & Pollard's Growing Food and Dry Mash for my fowls. It is better than all others, and I have used all kinds of food for 18 years.

Yours very truly,  
 GEORGE A. McFARLAND.





## BANNER ROOT CUTTERS.

Two Practical Machines for Cutting and Preparing Roots, Vegetables for Feeding Poultry and Cattle.

No. 7. Like illustration, exclusively for Poultry. Price, \$5.00.

No. 28. Capacity of hopper,  $2\frac{1}{2}$  bushels. For sheep, lambs and fowls. Hand or power use. Price, with crank for hand use only, \$15.00. Price, complete for power or hand use, \$16.

## CIDER MILLS—WINE, OR BERRY PRESSES.

Cider Mills. Made of best quality wood, carefully bolted and finished.

Junior. Capacity 2 to 4 barrels per day, \$12.50.

Medium. Capacity, 6 to 8 barrels per day, \$17.50.

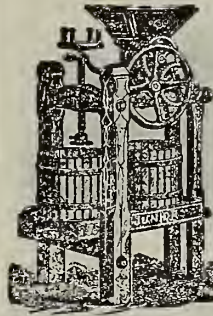
Senior. Capacity 6 to 12 barrels per day, \$25.00.

Wine, or Berry Presses. Made of best quality wood, carefully bolted and finished.

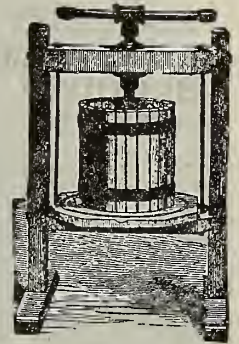
No. 1. Capacity 1 peck, \$3.75.

No. 2. Capacity 2 pecks, \$4.50.

No. 3. Capacity 4 pecks, \$7.00.



Cider Mill.

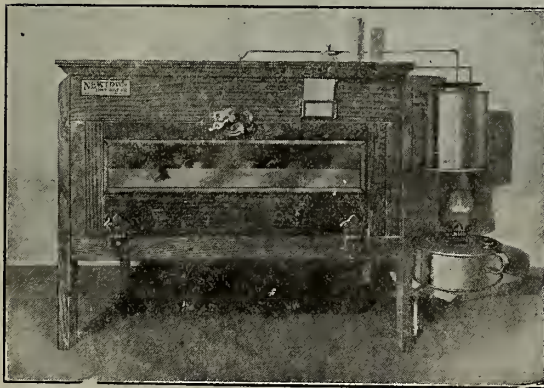


Wine Press.

# If in the Market for a Mammoth Incubator Send for Catalog

## NEWTON "BABY" GIANT INCUBATOR.

60, 150 and 300-Egg Capacity Hot-Water Heated.



Sixty-Egg Machine.

All of these machines include Oil-Heater with Regulator. A special Duplex Burner is furnished with the 300 capacity.

All are equipped with Moisture Pans, Automatic egg turner and automatic Temperature and Moisture Regulators.

The 150 and 300 egg sizes have Nursery Trays, one in the former and two in the latter, as the 300 capacity is composed of two individual compartments each having its own Regulator and other exclusive Newtown features.

The Newtown Incubator will hatch more of your eggs and give you sturdy chicks that will live, because it gives to the embryos just the right proportions of heat, air and moisture by its special heating and ventilating system.

Hundreds of Newtown Giant Incubators, from 60 to 24,000 eggs capacity, are sold each year and poultry men buy them knowing their investment is safe and sure to bring them profit. You get all of the most valuable features of these Giant sizes, and the same security and certainty of results, when you order a Newtown "Baby" Giant.

**The Newtown Guarantee.** The Newtown Giant Incubator Corporation guarantees the Newtown Incubator and other Poultry Equipment to be just as represented. Each Newtown Incubator, or any other Newtown product, must give satisfactory service.

Every customer must be pleased with his Newtown investment.

60 Eggs Size.....	\$10.00	150 Eggs Size.....	\$22.00
300 Eggs Size.....			\$35.00

## NEWTON GIANT COLONY BROODER.

Heat automatically regulated by Thermostat. Temperature held at the right degree all the time without attention.

Because it burns hard coal, colony houses are as safe from fire as your home with its coal-burning stove and heater.

The Coal Magazine of the "Giant" is filled from the top, above the Deflector, and holds 60 pounds of coal.

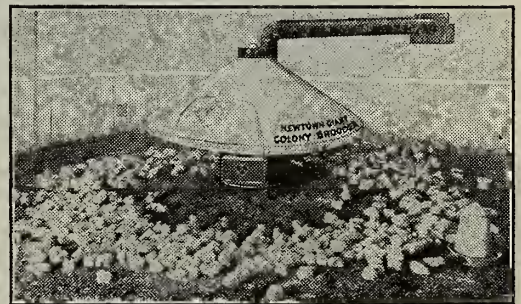
### COAL-BURNING—SELF-REGULATING.

Coal is fed to the fire automatically. As one piece of coal is consumed another drops into its place, insuring a constant, even fire.

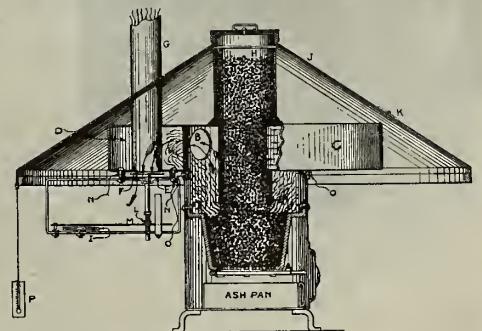
It saves much labor, because it needs coaling only every forty-eight hours in the severest weather, and raking but once in 24 hours under normal weather conditions. One filling of Coal Magazine has been sufficient for ninety-six hours during mild weather.

The 1000 to 1500 chick "Giant" consumes approximately eight cents worth of coal a day during the severest weather, with coal at \$7 a ton. An oil brooder or brooders to accommodate the same number of chicks requires 5 gallons of oil, an approximate cost of 55 cents a day.

All gases and heat pass from the fire into a Heat Radiator above the fire—which extends out from the Heater—and are utilized. This means great fuel economy.



In Operation, Showing 1000 Chicks. The Simplest, Safest and Most Economical.



Cross Section View.

(Sizes and Prices on next page.)

Some time ago I bought a four-dozen Parcel Post Egg Box from your house. Same made fourteen round trips between Baltimore and Freeland, Md. In the entire time only two eggs cracked.

Yours truly,

(Signed) J. W. ERDMAN, Baltimore, Md.



**NEWTOWN BROODER--Continued**

No pulleys, pulley cords or counter-balance weights to get out of order and slip. Heat Deflector need not be raised to coal and shake the fire or to remove the ashes.

**PRICES:**

No. 10 size, capacity 250 chicks.....\$18.00  
 No. 11 size, for any number up to 500 chicks..... 25.00  
 No. 12 size, for 1000 to 1500 chicks..... 35.00

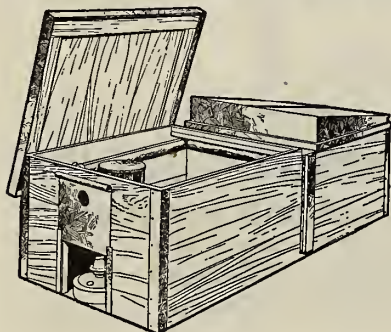
## SIMPLICITY HATCHER AND BROODER COMBINED

is so simple and easy to operate that almost any child can operate it. Its unique construction is along scientific lines, incorporating Natural principles, and is nearer to nature than any other hatcher ever devised. The annular water tank surround-

ing the egg chamber insures an even distribution of heat to every egg in the machine. The diffusion system of ventilation is automatic and controls the moisture to a fraction of a degree. The automatic heat regulator that never fails. Absolutely sanitary and fire-proof. Glass top, which enables the operator to see the chicks hatching and to see the thermometer without removing the top. Hot water heater; copper tank; capacity 50 eggs. Price, \$8.50.

**None-Such Brooders**

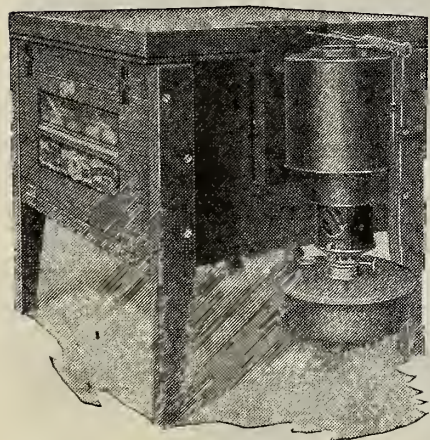
are built from genuine Red Cypress and Galvanized Sheet Steel and may be used either as an In-Door or Out-door Brooder and the heating system is so arranged having a graduated temperature which insures against crowding of chicks. The best all-around brooder on the market at the price. Price, \$12.00.



Capacity of Brooder 100 chicks. Sold under a positive guarantee.  
**WRITE FOR DESCRIPTIVE CIRCULAR.**

**THE PEEPY GEM INCUBATOR.**

The Peepy Gem Incubator is a low-priced, carefully made machine, with patented features. It has been tested by thousands of successful operators, and is not to be compared for a moment with cheap, hot-air machines, as it is constructed with double walls and top one and one-half inches thick, solidly packed with wool felt. It is constructed of cypress, basswood and poplar, very carefully finished. The door hinged at the bottom and closes snugly against wool felt packing, is one inch thick and fitted with double glass; the legs as shown, are strong and reach to top of case and are fastened with screws; egg chamber is roomy and nursery is provided with removable bottom for easy cleaning.

**Peepy Incubator.**

It is heated by our patented hot water system, fitted with a brass double wafer and regulator, table top, and has safety lamp, tested thermometer, egg tester, egg tray and full directions. Ready for instant use. Capacity, 50 eggs. Price, \$6.00.

**THE CYCLE HATCHER.**

"Philo" Cycle Hatcher is designed to take the place of the hen and the large, clumsy incubators, and to carry out the development of the embryo chick in the egg to a living, healthy bird by a device approaching nearer to the stage of perfection in construction, operation and control of the moisture than anything on the market to date. Send for special catalogue on "Philo" goods.

Cycle Hatchers, complete with Lamp, Thermometer, etc. One, \$6.00; two, \$11.50; four, \$22.00.

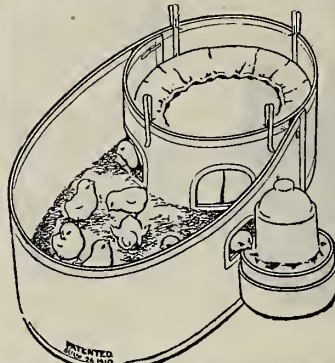
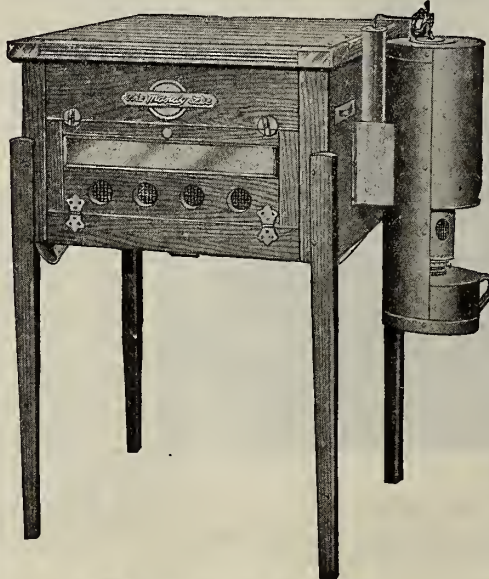
Brooder Hatchers. Complete with Lamp, Thermometer, etc. One, \$8.00; two, \$15.00; four, \$28.00.

**Cycle Hatcher.**

**Philo Galvanized Iron Brooder.**  
 One large size, \$2.50; two large size, \$4.75; four large size, \$9.25; one medium size, \$2.00; two medium size, \$3.75; four medium size, \$7.25; one small size, \$1.50; two small size, \$2.75; four small size, \$5.25. Set of three Galvanized Iron Brooders, one of each size, \$5.00.

**"Philo" Educator Brooders.**  
 Complete. One, \$5.00; two, \$9.50; four, \$18.00.

The "Lullaby" Brooder is positively the most simple brooder on the market, and yet it is built on lines true to nature, which insures the raising of nearly every chick entrusted to its care. Capacity, 25 chicks. Price, complete, \$1.00; weight 2 pounds.

**The "Lullaby" Brooder.****"MANDY LEE" INCUBATORS AND BROODERS.****100-Egg Mandy Lee Incubator.**

You can't buy better incubators and brooders than the "Mandy Lee." Space will not permit extended description here, but illustrations give a good idea of what these machines are and the catalogue—free on request—tells about them in detail. The ideal hatching and brooding equipment. Perfect control of heat, moisture and ventilation. All but the 60-egg passed by the National Board of Fire Underwriters.

**Prices of Mandy Lee Incubators:**

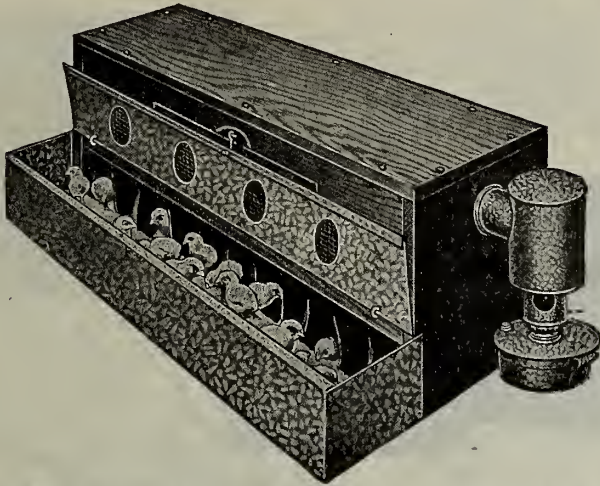
60-egg size...\$10.00  
 100-egg size... 18.00  
 150-egg size... 24.00  
 200-egg size... 27.00

**Fireless Brooder No. 8.**

**No. 8 and 10 Mandy Lee Fireless Brooder.** These can be used in or outdoors, according to the condition of the weather.  
 No. 8 will hover 50 chicks. Price, \$5.00.  
 No. 10 will accommodate 100 chicks. Price, \$8.00.

Mrs. F. C. Baker, of 312 Belair Road, tells us that she put 35 Pekin Duck eggs in a Cycle Hatcher and hatched out 31 healthy ducklings.





The 60-Chick Indoor Brooder. (Heated.) Accommodates nicely more than 60 chicks. This brooder is just the thing to go with a 60-egg incubator. For larger machines we recommend the Regular "Mandy Lee" and the Secondary Brooder. The Secondary is intended, as its name indicates, for chicks two or three weeks old or after they have been through the Regular Brooder. Price, as illustrated, \$5.00.

## THE INTERNATIONAL SANITARY HOVER.

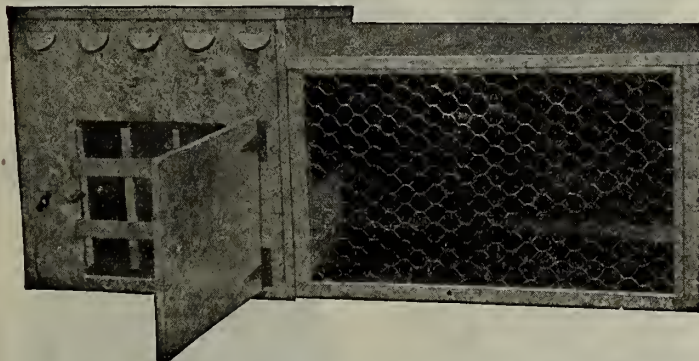
The International Sanitary Hovers have stood every climatic test from Panama to Quebec. Practical poultrymen, state experiment stations, and poultry judges endorse them. You can raise chicks anywhere with International Sanitary Hovers. No specially constructed houses are necessary. There is no better place than in your regular hen houses.

Sanitary Hovers are as practical for the small back-yard poultry raiser as for the large poultry farms. They are fire-proof and vermin-proof—warmest at the curtain, radiate heat downward on the backs of the chicks, and in this way prevent leg weakness—usable anywhere—ready for business wherever placed. To set them up, you simply set them down. No crowding or smothering of chicks—no kneeling in mud to get at the lamp—no cutting of holes or building of platforms. You want the best brooding device—you will get it in the Sanitary Hovers. Capacity, 100 chicks. Price, \$3.50 each.

The International Sanitary Mammoth Hover. A blue-flame Hover for 500 to 600 chicks. Identical in principle with the standard (100-chick) Sanitary

The International Sanitary Hover.

Hover—the one perfect brooding device. When not in use, it can be hung from the ceiling, or against the wall, it is a great time saver, for after lighting the wick no more work is required to operate it other than to fill the oil tank when necessary. It is portable and can be used anywhere. Price, \$25.00.

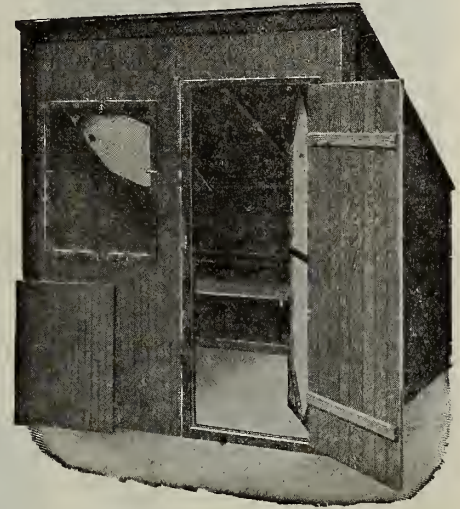


M. & S. Metal Coop and Run. For hen with chicks. All galvanized iron; can be taken apart and folded up. Size, 15 in. wide, 42 in. long, 13 in. high. Price, complete, \$3.50.

## POULTRY HOUSES, BROOD COOPS, ETC.

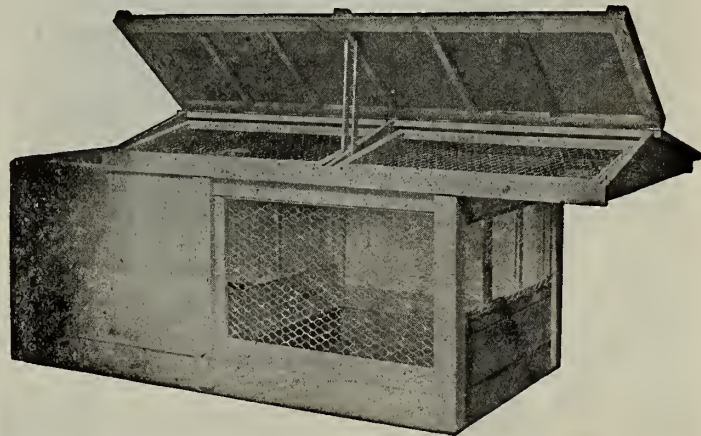
The M. & S. Portable Colony Poultry House.

It is made of 7-8 in. pine, matched, and planed on both sides. Has an outside board door for protection in cold weather and wire screen door for summer; also a window hung on hinges, with wire netting to keep the birds in when the window is open. There is an opening over the window covered with cloth to let in air. Has roost dropping board and two nests. The roof is covered with patent roofing paper. The house is made in five sections, put together with 16 screws. Is six feet four inches high on front, and five feet high on back. Weight of coop, K. D., 350 pounds.



Price of house complete, painted two coats of lead and oil, as follows: 6 ft. wide, 4 ft. deep, \$17.50; 6 ft. wide, 6 ft. deep, \$22.50; 6 ft. wide, 8 ft. deep, \$27.50.

## PHILO BROOD AND COLONY COOPS.



The New Philo Adjustable Coop.

Adjustable Coops. Complete, one, \$12.50; four, each, \$12.00.

Brooder Coops. Complete, one, \$8.50; six, each, \$8.00.

Economy Coops. Complete, one, \$10.50; six, each, \$10.00.

Winter Colony Coops. Complete, one, \$21.50; two, \$42.00; four, \$80.00.

Summer Colony Coops. Complete, one, \$14.00; two, \$27.50; four, \$52.50.

New "Philo" Utility Coop. For use in the South, \$37.50; for use in the North, \$43.00.

New "Philo" Utility Coop. For use in the South, \$37.50; for use in the North, \$43.00.

The "Standard" Brood Coop. For hen with chicks. Is rain-proof, rat-proof, vermin-proof, and an absolutely safe and sanitary home. Of first importance to the raising of little chickens is a properly ventilated coop, consequently this matter was given the closest attention. Around the bottom of the "Standard" Coop we have turned out small openings similar to the ventilations on automobile hoods. Price, \$2.00; 1/2 doz., \$10.00.

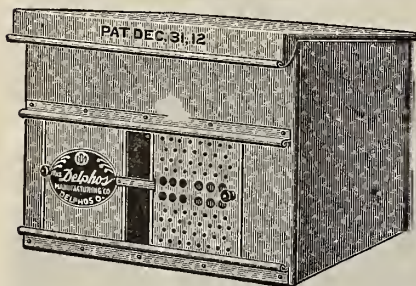
The "Philo" System Coops. As space will not allow us to go into details, we suggest to our customers to let us send them interesting and instructive books on "Philo" System Goods.



(Brood Coops continued on next page.)

January 8, 1913. Gentlemen: It gives me pleasure to write you and tell you the good success that I had during the spring of 1912 with the 60-egg Mandy Lee Incubator purchased from you early in 1912. The hatch that I made, I believe, is a record on this small machine. Started the machine with sixty (60) eggs and made a hatch of fifty-two (52) and raised forty-seven (47) of the fifty-two (52) hatched. These pullets are now laying, and have been since the middle of November, and thinking that you may be interested in the enclosed picture of them, I take pleasure in handing you a copy. Respectfully yours, B. M. OBERDORFER, No. 21 S. Hanover St.



**BROOD COOPS.**

The Delphos Superior Galvanized Brooder Coop. Packed flat and can be put together without any tools. The bottom is elevated so chicks are not exposed to dampness, and it can be removed in an instant to be cleaned. All parts slide together in a bead and coop is perfectly rigid. Can be taken apart and packed away flat, occupying very little space when not

in use. Rat and vermin-proof. Lice will not live in a metal coop. A perfect shelter for hen and young chicks. Size, 17½x23x19 inches high in front, and 16 inches high in back.

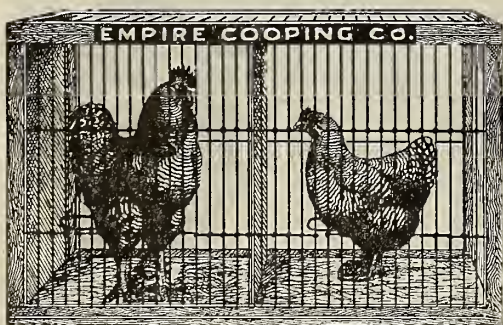
**"REGAL" OATS SPROUTER.**

Dry mash before your fowls and a liberal supply of fresh succulent green food will not only make hens lay, but will act as a tonic and stimulative influence on the digestive organs. Eggs in the winter months are worth money—then why not supply your fowls with a liberal supply of green food? The value of this machine can only be appreciated after you have tested it out. No wood is used in its construction, to warp and fall to pieces after a few days' use. Made from the best grade of Galvanized Steel. Double walled with heat flues running the full length inside. Every drop of moisture and drip goes direct into drip pan. This is one of our special features. Another important feature is the taking in of warm, fresh air not supplied by other makes. If directions are followed, there will be no moulding or souring of grain.

Heat, an abundance of moisture or vapor in connection with a liberal supply of fresh air are the essential features required to sprout oats. Do your part and this machine will make sprouts several inches high in as many days. Absolutely safe and a piece of furniture that will look good in any kitchen. Made to give satisfaction.



	Price.	Fowls.
No. 1, 15x29, 3 trays and soaking tray.....	\$6.00	50
No. 2, 16x32, 4 trays and soaking tray.....	9.00	100
No. 3, 20x22x38, 5 trays and soaking tray.....	12.00	300
No. 4, 24x24x46, 7 trays and soaking tray.....	16.00	500

**EXHIBITION AND SHIPPING COOPS, TRAP NEST, ETC.**

Style C.  
For prices, see top of next column.

**Empire Exhibition Coops**  
 For training and conditioning show birds, as well as for using to exhibit them. These are carefully and substantially made and will materially aid any bird in winning on account of the way they show them off. Made in different sizes Poultry, Pigeons, Turkeys, Geese, Cats, Cavies and Hares. Send for special catalog.

**Style for Poultry and Ducks**

	Height	Width	Length	Price
AA (for 1 or 2 birds).....	27	24	24	\$3.50
C (2 compartments).....	27	24	48	5.00
A (3 compartments).....	27	24	66	5.80
G (4 compartments).....	27	24	88	7.60

Your order for one or more Practical Trap Nests will receive our prompt attention. Send it now and do away with those birds that produce nothing and eat much.

**The Eyrie Shipping Coop.** Fig. 2. Made of corrugated paper, will carry any distance, saves expressage and always delivers the contents in good shape. Shipped knocked down, and takes up very little space in stock room.

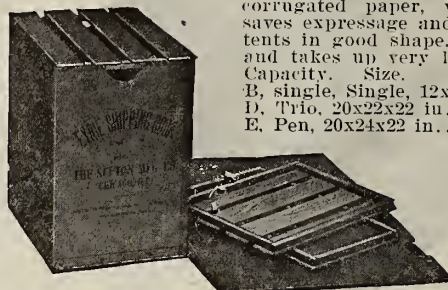


Fig. 2.

	High	Wide	Long	Each	Doz.
Single Bird Size.....	25	12	22	\$ .75	\$8.40
Trio Bird Size.....	25	18	22	.90	9.60
Pen Bird Size.....	25	22	22	1.00	10.80

**NEWTON PRACTICAL TRAP NEST.**

The truly reliable detector of the shirking hen. The Practical Trap Nest is a profitable addition to every poultry plant, because it weeds out the drones and cuts down feed bills for the man who wants to keep only those birds that produce.

Made in sections of 1 to 5 nests. Strongly built of good lumber, as light in weight as consistent with strength and durability, with a trap that works noiselessly and surely.

**PRICES, SHIPPED CRATED, READY FOR USE:**

One Complete Single Nest, 14x18x15 in.....	\$1.00
One Complete Set of 2 Nests, 27x18x15 in.....	1.80
One Complete Set of 3 Nests, 40x18x15 in.....	2.50
One Complete Set of 4 Nests, 53x18x15 in.....	3.20
One Complete Set of 5 Nests, 67x18x15 in.....	3.90

**EGG BOXES, CARRIERS, TURNERS, ETC.****The Houghton Egg Carrier.**

Made after the style of a dress suit case. See illustration. Fig. 3. Holds 6 dozen eggs by wires which hold the eggs perfectly tight and allows ventilation, keeping the eggs fresh. Price, \$1.00.

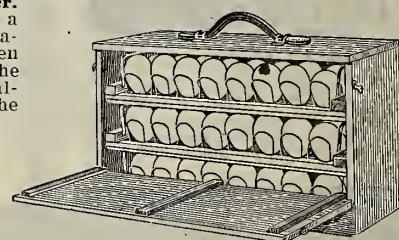


Fig. 3.

**"Modern" Egg Carrier.** Fig. 4. Just the thing to bring eggs to market. 4-doz. size, \$1.00; 6-doz. size, \$1.25; 8-doz. size, \$1.50; 12-doz. size, \$2.00.

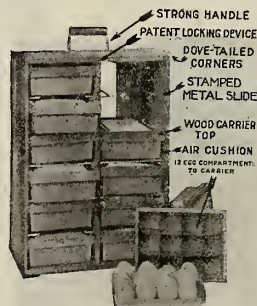


Fig 4

**"Humpty Dumpty" Egg Carrier.** Fig. 5. Collapsible. 12-dozen size. Each, 40c.; per doz., \$3.25.

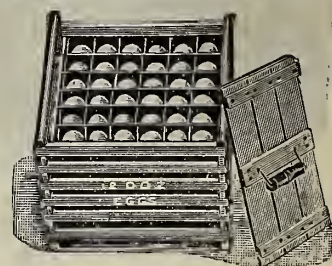


Fig. 5.

Irvington, Sept. 15th, 1913. Gentlemen: I certainly am pleased with the Mandy Lee Incubator that you sold me. I have two other makes, but they cannot be compared with the Mandy Lee. Yours truly,  
**VICTOR NOLL.**



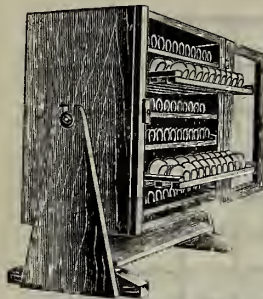


Fig. 6.

The Houghton Egg Turner. Fig. 6. Of inestimable value to poultry raisers. The eggs can all be turned in a moment's time with positive certainty and without risk of breaking. A great labor saver. Made in four sizes.

15-doz. size.....	\$3.25
28-doz. size.....	4.25
42-doz. size.....	5.75
84-doz. size.....	8.50

## EGG BOXES FOR PARCEL POST.

(Fig. 7)

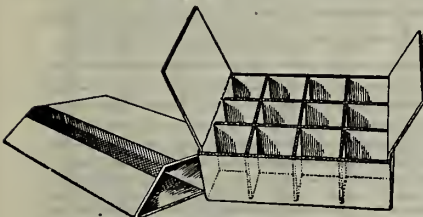


Fig. 7.

This shipping package is so constructed that each egg is separated by a thickness of corrugated board and the entire contents are surrounded by a double wall of air-cushioned corrugated board. Their extreme light weight, when compared with other packages, will, in many cases, save the postage for an extra pound. Fold flat for shipment.

For shipment each egg must be wrapped in paper.

Size	Wght.	Price	Price	Wght.
1 only	1 only	1 only	1 only	1 doz.
1 doz.	1-lb.	5c.	\$ .50	8-lb.
2 doz.	1-lb.	7c.	.75	12-lb.
3 doz.	2-lb.	10c.	1.00	16-lb.
4 doz.	2-lb.	12c.	1.25	20-lb.
5 doz.	2-lb.	15c.	1.50	23-lb.
10 doz.	4-lb.	25c.	2.50	42-lb.

M. & S. Egg Box. Fig. 8. This is an ideal box for the retail egg trade, presenting the goods to the customers in an attractive package with the minimum amount of trouble for the seller. They knock down in a very compact shape. 1-doz. size, 10c. per doz.; 75c. per 100; \$1.50 per pkg. of 250.

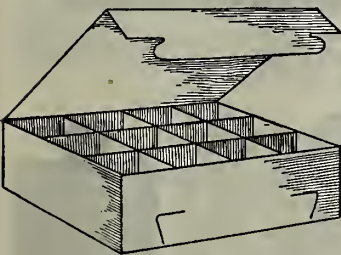


Fig. 8.

Safety Egg Box. Fig. 9. Eggs packed in these boxes will withstand rough handling and reach the consumer in the best condition. They can be packed neatly in all standard sizes of egg shipping crates. 1-doz size, 15c.; ping crates. 1-doz. size, 15c. per doz.; 2 doz., 25c.; 50, 50c.; 100, 90c.; 1000, \$7.00.

Egg Case Fillers. For Humpty Dumpty or Regular 15 and 30 dozen Egg Crates. Box containing 120 Fillers and Dividers, \$1.75; doz. lots, 25c.

Anderson's Egg Boxes. Fig. 11. These are made of corrugated paper and are similar in every way to the Eyrie box, except they are not equipped with a handle.

	Each.	Doz.
One setting.....	\$ .15	\$1.15
Two settings.....	.20	1.90
50-egg size.....	.25	2.75
100-egg size.....	.40	4.50



Fig. 11.

Loc-Krate. For shipping eggs for commercial purposes, made of good, well-seasoned lumber, with pasteboard fillers and a self-locking arrangement. 15-doz. size, 75c.; 30-doz. size, \$1.25.



Fig. 9.



Fig. 10.

"Saf-egg-pak" Box. Fig. 10. Absolutely no risk in sending valuable hatching eggs by express, parcel post, etc. Made of wood.

Size	Each	Doz.
1 setting (15 eggs)...	\$ .25	\$2.50
2 settings (30 eggs)...	.40	4.00
50 eggs.....	.60	
75 eggs.....	.70	
100 eggs.....	.80	

## BUTTER BOXES FOR PARCEL POST.

This two-piece corrugated box is designed to hold 1, 2, 3, 5 pounds of butter when packed in Tuck End Cartons (which are included in the price) for shipment in Local Delivery and First Zone. The air cells in the corrugated board assist in preserving a uniform interior temperature, making possible the delivery of the butter in a cool, sweet and sanitary condition. Folds flat for shipment.

	Doz.	100
1 lb., 3c. each; Shipping weight, 1 lb., 30c.;		
2 lb., 4c. each; Shipping weight, 1 lb., 40c.;		
3 lb., 5c. each; Shipping weight, 1 lb., 50c.;		
5 lb., 6c. each; Shipping weight, 1 lb., 60c.;		
Shipping weight, 2 lb., \$2.25		
Shipping weight, 5 lb., 3.00		
Shipping weight, 5 lb., 3.50		
Shipping weight, 9 lb., 4.25		

Eyrie Egg Boxes. Fig. 2. 1 setting, each, 15c.; \$1.35 per doz. 2 settings, each, 20c.; \$2.00 per doz. Cannot be used for parcel post on account of locking feature.

## STAR CHICK BOX.

Star Chick Box. Outside frame made entirely of wood and is shipped set up ready for use. 1 doz. chick size, 25c.; 25-chick size, 30c.; 50-chick size, 45c.; 100-chick size, 70c.

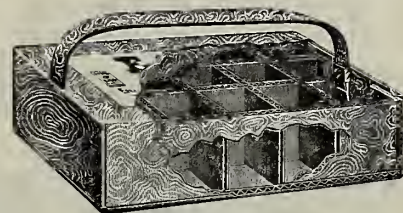


Fig. 2.



Live Chick Shipping Box. Made of corrugated paper, extensively used, will carry chicks any distance with perfect safety. Are shipped knocked down and take up small amount of space.

Capacity.	Size.	Each.	Doz.
25 chicks .....	12x 6x5	\$ .12	\$1.25
50 chicks .....	12x12x5	.20	1.75
100 chicks .....	24x12x5	.35	3.00

## SCHILD'S LIGHTNING LICE KILLING MACHINE.

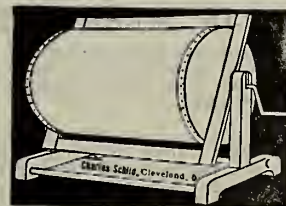
For Eggs in Winter it Can't be Beat.

Look at the picture and see what a simple thing it is. Any man, woman or child can operate it. Yet it is so strongly made, so nicely painted, that one will last you almost a lifetime if given proper shelter. If you do not want your old fowls to suffer with Body Lice, Colds, Roup, Diarrhoea and Cholera in the cold fall and winter months, and if you want them to lay you eggs, use Schild's Lightning Lice Killing Machine.

This Machine will clean from 20 to 50 little chicks, or seven to 9 old fowls, at one operation, according to age, size and breed. It will absolutely do no harm to little chicks or laying hens. If you now own a badly rundown flock or any sick fowls, put them through the Schild Lightning Lice Killing Machine and see what it will do for them. If it does not make you open your eyes some, then it will be because you are stone blind.

No. 1, small size.....	\$2.50
No. 2, medium size.....	3.00
No. 3, large size.....	4.00

Special Powder for using in these machines, 25c. pkg.





**"AMERICAN" STEEL FENCE POST.**

"American" Steel Posts for Poultry Yards. A 6-foot fence is high enough for the ordinary poultry fence. Putting the posts 2 feet in the ground, this is accomplished by using 8-foot posts. By the use of "American" Steel Posts about the poultry yard sanitary conditions are secured and the poultry is safe from the common pest breeder, the old wood post.

No. 16 Line Post, 6½ ft. Price...\$ .45      8 foot End Post...\$2.75  
 No. 16 Line Post, 7 ft. Price... .50      8 foot Corner Post... 3.75  
 No. 16 Line Post, 8 ft. Price... .60      Send for Special Catalog.

Barbed, Ribbon Price, per 100 lbs., \$3.00  
 Plain and other Wires. Prices on application.  
 Barbed Wire Staples. Price, per lb., 5c.

**American****Fence**

The "American" Farm Fence is made of large, strong, high-grade steel wires, heavily galvanized. Amply provides for expansion and contraction. Is practically everlasting. Never goes wrong, no matter how great a strain is put upon it. Does not scar or injure stock. Sold in 10 and 20 rod rolls.

No.	Height.	Stays.	Str'ds.	Rod
726x	6. 26 in.	6 in.	7 in.	\$ .30
726x12.	26 in.	12 in.	7 in.	.25
832x	6. 32 in.	6 in.	8 in.	.35
832x12.	32 in.	12 in.	8 in.	.27
949x12.	49 in.	12 in.	9 in.	.34
1155x12.	55 in.	12 in.	11 in.	.40

FARM GATES AND OTHER  
 TYPES AND STYLES OF STOCK  
 FENCE. Send for Special Descriptive Catalogue and Prices.

**TWO-INCH DIAMOND MESH POULTRY NETTING.**

Put up in rolls of 150 feet. Galvanized after weaving.

	Price.
No. 20, 1 foot, 150 running feet..	.70
No. 20, 1½ feet, 150 running feet..	1.00
No. 20, 2 feet, 150 running feet..	1.35
No. 20, 2½ feet, 150 running feet..	1.65
No. 20, 3 feet, 150 running feet..	1.90
No. 20, 4 feet, 150 running feet..	2.50
No. 20, 5 feet, 150 running feet..	3.00
No. 20, 6 feet, 150 running feet..	3.50
No. 19, 1 foot, 150 running feet..	.75
No. 19, 2 feet, 150 running feet..	1.50
No. 19, 3 feet, 150 running feet..	2.25
No. 19, 4 feet, 150 running feet..	3.00
No. 19, 5 feet, 150 running feet..	3.75
No. 19, 6 feet, 150 running feet..	4.50

Two-inch Mesh, 1c. per square foot in less than roll lots.

**1¼-IN. MESH NETTING.**

Galvanized after weaving. This wire is small enough to turn baby chicks and pigeons, and much cheaper than the 1-inch mesh.

PRICES ON 1¼-INCH WIRE:	
No. 20, 1 foot, 150 running feet.....	\$1.25
No. 20, 1½ feet, 150 running feet.....	1.75
No. 20, 2 feet, 150 running feet.....	2.35
No. 20, 2½ feet, 150 running feet.....	3.00
No. 20, 3 feet, 150 running feet.....	3.75
No. 20, 4 feet, 150 running feet.....	4.75
No. 20, 5 feet, 150 running feet.....	5.75
No. 20, 6 feet, 150 running feet.....	7.00

1¼-inch Mesh, 2c. per square foot in less than roll lots.

**1-INCH MESH NETTING.**

One foot, 150 running feet, \$1.65; 2 foot, \$3.25; 3 foot, \$4.75; 4 foot, \$6.25; 5 foot, \$7.75; 6 foot, \$9.25.

Poultry Wire Staples, 7c. per lb.

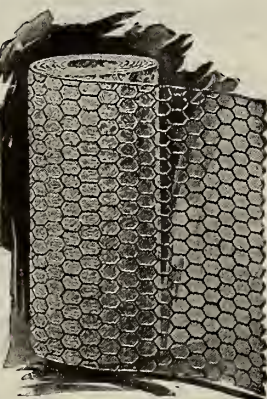
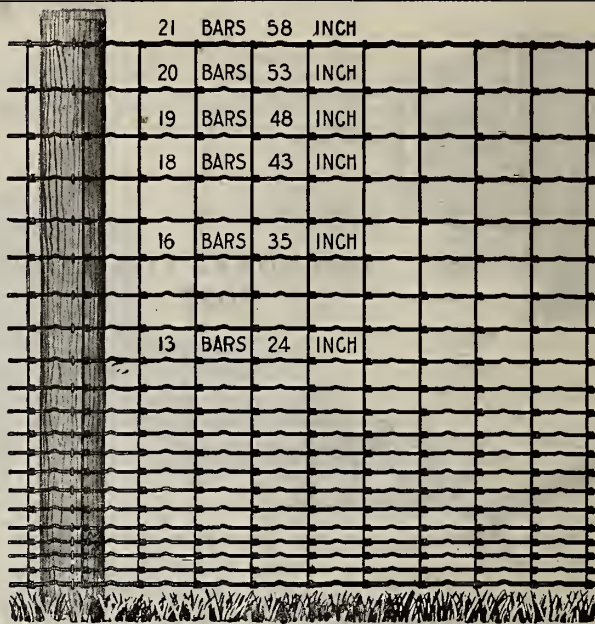


Illustration of two-inch Diamond Mesh Poultry Wire.



The "New American" and Rabbit Fence. For poultry yards, gardens, orchards and yards; it is a great favorite. Price, 165 running feet, 48 in., \$4.25; 53 in., \$4.50; 58 in., \$4.75.



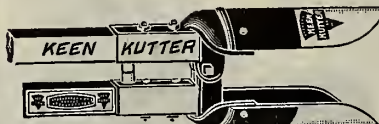
**Hardware Cloth.** For lining corn cribs, poultry houses, etc., put up in rolls of 100 running feet. Rat and bird proof. 24-in., \$6.00; 30-in., \$7.50; 36-in., \$9.00; 48-in., \$12.00. Hardware Cloth in less than roll lots, 6c. square foot.

**"Regal" Roofing.** The roofing with life. Will not crack, dry out, rust or rot in any climate. It is made from genuine Trinidad Lake Asphalt, which is standard all over the world. It is the most durable for roofing because its water-proofing oils are least affected by the elements. It does not oxidize from exposure to the air. It does not volatilize or evaporate from the heat of the sun. Extreme cold doesn't take the life out of it.

1-ply, guaranteed 5 years...\$1.85  
 2-ply, guaranteed 7 years... 2.15  
 3-ply, guaranteed 10 years... 2.40  
 Sample mailed on request.

**J-M Dry Cell Batteries.** Strong and lasting, for ignition work in automobiles, motor boats, gas and gasoline engines, motors, small lights, bells, etc., 25c. each.

SHEET—PAGE 56

**POSTHOLE DIGGER.**

"Keen Cutter" Posthole Digger.

Highest Grade Crucible Steel Blades, 12 Gauge, 9 in. deep, 5 in. wide, riveted to heavy shouldered Malleable Iron Frame, with closed handle sockets 4 in. deep; select ash handles with graduation marks in ft. burned on; from 2 to 4 ft.; will dig hole 6 in. in diameter. Price, \$1.50.

Post Hole, or Well Augers. Price, \$3.00.

**FELKER'S SANITARY SPECIALTIES FOR POULTRY.**

Fig. 1

(Felker Line continued on next page.)

"Peerless" Drinking Fountain keeps the water clean and pure. 1-qt., brooder size (Fig. 1), 30c.; 5-qt., 60c.; 10-qt., 85c.; 5-qt. size with a heater (Fig. 2), to keep water from freezing, \$1.50; 10-qt., \$2.00; 5-qt. Heater alone, \$1.00; 10-qt. Heater alone, \$1.25.



Fig. 2.

Reisterstown, Feb. 11th, 1913. Gentlemen: I am more than pleased with the results that I got from the 100-egg Mandy Lee Incubator. Yours truly,  
 MAX BOETTCHER.



**FELKER LINE—Continued.**

**Felker's Lug-a-Jug.** And have a practical Drinking Fountain for your poultry for thirty-five cents. It consists of a frame and pan to be used in connection with any gallon jug, and will make a perfect drinking fountain. Price, 35c. each.

**The Noslop Chick Fountain and Feeder.** To be used with any size Mason jar. When used for water fill the jar-snap on cap and adjust the bottom. For feed it should be used without the cap. This is a cheap, practical and sanitary Fountain and Feeder for small chickens. Price, 15c. each; 2 for 25c.

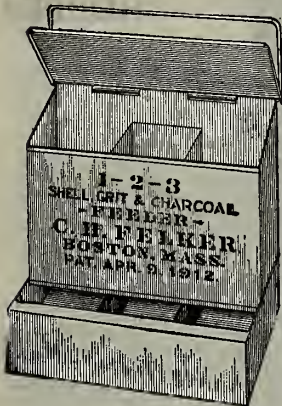
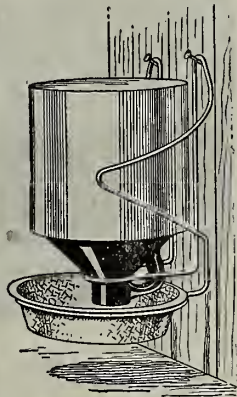
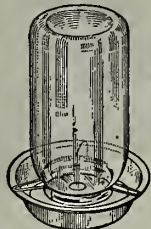
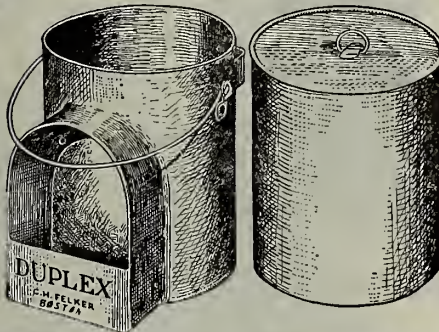


Fig. 1



**Felker's "1-2-3" Poultry Feeder.** Fig. 1. For dry mash, scraps, shells, grit, charcoal or any poultry feed. When used for one kind of feed only, take out separator; for two kinds put separator in one end; three kinds, say scraps, shells and grit, put separator in middle, and you have three separate feeders. Price, 75c.; small size, 50c.



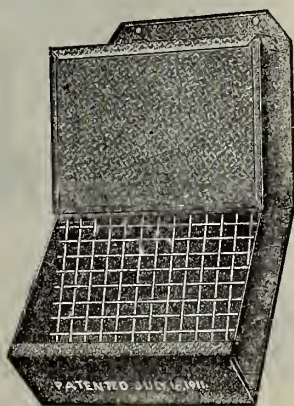
**Felker's Duplex Wall Fountain.** A big improvement over the old style Wall Fountain. Made in two pieces as per illustration out of galvanized iron. Easy to clean, dead air space between cover and reservoir keeps water cool in summer and from freezing in winter.

Price, 5-qt. size, 60c.; 10-qt. size, 85c.

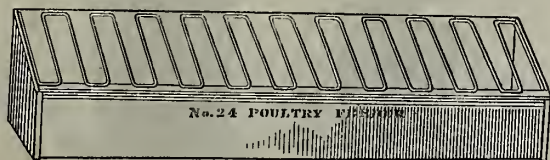


Closed.

**Sexton's Dry Feed Hopper.** Easy to fill and no waste. Pronounced to be the best hopper offered. Simple in construction, easily operated, and absolutely rat, mouse and dust-proof. No. 1, poultry size, \$1.00 each.



Open.



No. 24 POULTRY FEEDER

**Felker's No. 24 and No. 12 Poultry Feeder.** A practical dry mash feeder. Can be used for any kind of grain; designed to hang on the wall. Will not waste the grain and will do as satisfactory work as any high-priced feeder. No. 24, size 24 in. long, 50c.; No. 12, size 12 in. long, 35c.

Riderwood, Md., Dec. 10, 1913. Gentlemen: I will send you my check the first of the month for the two No. 1 Norwich Automatic Feeders. Enter my order and ship at once one No. 2 feeder and one Norwich Automatic Airlock Fountain. These two articles are fine. They make poultry keeping 100 per cent. easier. Yours truly,

GEORGE F. ROBERTSON.

**Norwich Automatic Feeders, Fountains, Etc.**

**THE NORWICH AUTOMATIC EXERCISER AND FEEDER.**

This is an ingenious automatic machine for feeding and exercising poultry, and has, by force of its own merits in the short years of existence, established itself as the standard method of feeding in poultry culture.

Fill the hopper with any dry grain feed, or any mixture of dry grain feed, and the revolving bait bar with cracked corn. Stand the Feeder anywhere in the yard, pen or house, and put any kind of litter under machine. Adjust valve to feed desired quantity. Adjust legs for required height. Use for thirty days. At the expiration of that time, if you do not see a marked improvement in your flock, if your egg production is not increased, and if you are not absolutely satisfied with the machine, return it and we will at once refund your money. Larger sizes, prices on application. Discount on quantities. Send for full descriptive printed matter.

No. 1, 8-qt. Hopper.....Price, \$2.50  
No. 2, 14-qt. Hopper.....Price, 3.25  
No. 3, 20-qt. Hopper.....Price, 4.10  
No. 4, 32-qt. Hopper.....Price, 5.00



**NORWICH CHICK FEEDER.**



Made in Three Sizes.

The body of the Norwich Chick Feeder is of galvanized steel with ends riveted and burred to malleable iron brackets, and with Removable Guard Rod to facilitate in filling and for thorough cleaning where sour milk is used. (Where chick feed or mash is used cleaning is unnecessary, as the feeder is always clean.) As it is water-tight it may be used for mash, chick feed, or sour milk with equal satisfaction, and will be found the strongest and best chick feeder ever placed on the market.

For outside use the Norwich Chick Feeder is fitted with a Rain Top, which protects the feed from both sun and rain, and the relief to the breeder in knowing that his chicks are supplied with clean, wholesome feed, protected from wetting and consequent souring, may be better imagined than described.

**WITHOUT RAIN TOP.**

10-inch Feeder, shipping weight 15 ounces.....\$ .25  
15-inch Feeder, shipping weight 19 ounces.....\$ .30  
20-inch Feeder, shipping weight 23 ounces.....\$ .35

**WITH RAIN TOP.**

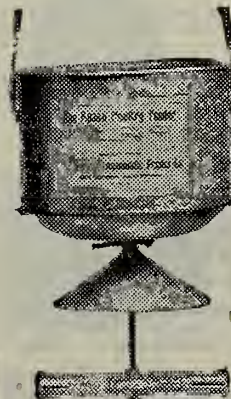
10-inch Feeder, shipping weight 20 ounces.....\$ .35  
15-inch Feeder, shipping weight 25 ounces.....\$ .40  
20-inch Feeder, shipping weight 33 ounces.....\$ .45

Can be shipped by parcel post. —add postage for zone.

**Norwich Automatic Apaco Poultry Feeder.** In general design this feeder is built on the same lines as our well-known and justly famous Norwich Automatic Exerciser and Feeder, but is a hanging machine rather than arranged with adjustable standard.

The machine is complete with the all-important adjusting valve for regulating the discharge from the hopper, which is thoroughly covered by our U. S. Letters Patent, and which, for this reason, is always absent in any feeder on the market except those manufactured by our own company, and may be relied upon as a thoroughly dependable and practicable machine for the purpose for which it is intended.

Constructed of 28 gauge Galvanized, Tight Coated Sheet, malleable and gray iron castings for the Valves, Agitators, Collars, etc., and the workmanship of the highest possible character, we unhesitatingly guarantee our APACO FEEDER as the best machine ever placed on the market at its price and



offer it under the same guarantee that covers all our goods. Price, made in one size only, 12-qt. capacity, \$1.00. Shipping weight, 5 lbs. Sent postpaid anywhere east of the Mississippi River.





## THE NORWICH AUTOMATIC AIR-LOCK FOUNTAIN

The device is worked out on a simple example in Physics of atmospheric pressure as against the weight of water, and as it is a fixed principle of nature, the device is absolutely perfect in its action and may be relied upon to fill its functions as truly as any condition of nature with which you wish to compare it.

We guarantee the Norwich Automatic Air-Lock Fountain to be absolutely satisfactory in every respect, that it is positively frost-proof to ten degrees below zero, hygienic and sanitary. Failing to give satisfaction in every respect, the machine may be returned at our expense and the purchase price with delivery expenses will be refunded.

Price, made in one size only, 5 gallon capacity, complete with burner base, \$3.00; without burner base, \$2.00.

Norwich Automatic Drinking Fountain. To be attached to lard or butter tub. Price, \$1.00.



Without Rain Guard.



With Rain Guard.

## THE NORWICH AUTOMATIC DRY MASH HOPPER

Guarantee: We guarantee the Norwich Automatic Dry Mash Hopper to be positively and absolutely non-cloggable, to be water-proof (when provided with Rain Guard) rain-proof, and perfect in its construction and action.

Failing to give satisfaction in every respect, it may be returned at our expense and the purchase price, plus delivery charges, will be cheerfully refunded.

Made in one size only, 20-quart capacity.

Price, without Rain Guard, shipping weight 6 lbs., \$2.00; with Rain Guard, shipping weight 8 lbs., \$2.75. F. O. B. Baltimore, Md.

May be sent by parcel post—add postage for zone.

## MOE'S SANITARY POULTRY DRINKING FOUNTAIN



(Patented.)

The Most Popular Poultry Fountain on the Market. Fills from the Top.

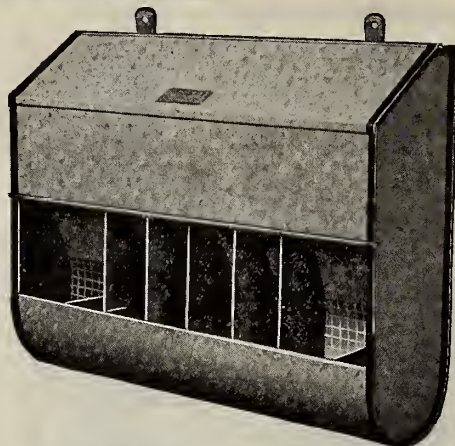


Dead air space between cover and reservoir keeps water cool in summer and from freezing in winter. Sanitary and humane. Manufactured in three sizes.

No. 1, 1-gallon capacity.....\$1.25  
No. 2, 2-gallon capacity.....1.75  
No. 4, 4-gallon capacity.....2.25

Write for catalogue of Moe's Sanitary Drinking Fountains for Poultry, Pets and Porks.

Mr. A. E. Warner, of 1009 Madison avenue, a poultry judge of international fame, says: "Your Park & Pollard Growing Food is the greatest food I have ever used for developing growing chickens. I have tried most all kinds that are manufactured."



## THE UNIVERSAL FEED HOPPER

Six Compartments.

Our Universal Hoppers are 24 in. long, 6½ in. wide and 18½ in. deep. They have two 6 in. and four 3 in. compartments, enabling you to give your fowls six different kinds of feed separately. They are made of galvanized steel, strong and durable; and when closed, are rat, mouse and dust-proof.

Price, \$2.00 each; shipping weight about 15 lbs.



The "6-in-1" Feeder. Is a large hopper supported on four strong iron legs and designed to keep constantly before chickens all the food necessary for them. Connected with the central hopper (that for mixed grain) is an "agitator" loaded with whole corn as bait. When the fowls pick at the bait, a small quantity of the mixed grain falls on the deflector, and is scattered widely in the litter on the floor. Scratching vigorously for grains, the hens get just the exercise they need.

The compartments for dry mash, meat, oyster shell, grit, and charcoal (or any other combination, of course) are arranged so that the materials flow readily into outside compartments within easy reach of the hens on the perch. This perch is strongly constructed and completely surrounds the feeder. The outer compartments are walled in such a way as to make impossible mixing or waste of foods. The hens move around the perch, eating from one compartment after another and so balancing their ration. Price, 40-qt., \$4.75; 20-qt., \$3.75. Outdoor Hoods, small, 75c.; large, \$1.00.

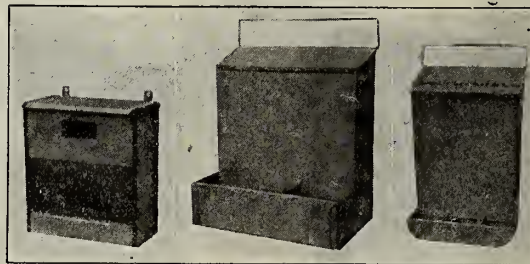


Fig. 4.

Fig. 5.

Fig. 6.

**Round Bottom Grit and Shell Box.** Round bottom—a feature absolutely new to grit and shell boxes. No clogging of grit and shell in the corners. Easily the most satisfactory grit and shell box ever placed on the market. 50c. and 75c. Fig. 6.

**Rectangular Grit and Shell Box.** Liked by many because dust and straw cannot easily get into the trough. Price, 40c. Fig. 4.

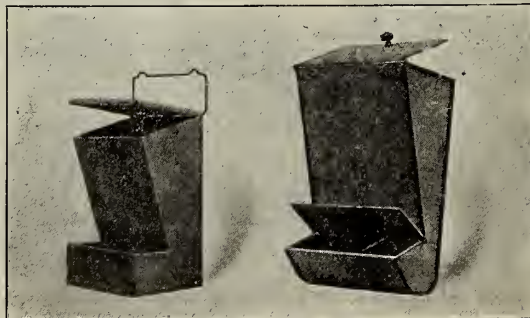


Fig. 9.

Fig. 10.



(Illustrations of Figs. 5, 9 and 10 on page 60.)

**Straight Front Dry Hood Hopper.** Fig. 5. At least as good as any other straight-front hopper made, and lower in price. Perfectly straight front, which causes the contents to feed readily. Lip in front. Wire bars to keep the fowls from wasting food. Two compartments. Price, 60c.

**Round Bottom Dry Food Hopper.** Fig. 9. The hopper you will eventually buy. Sure to replace all other makes of dry food hopper. Owing to the rounded bottom, dry mash and beef scrap feed readily and never clog. Two compartments. Price, 65c.

**Slant Front Dry Food Hopper.** Fig. 10. Heavier and stronger than most of its competitors of the slant-front variety. Price, 65c.

**"Apex" Feed Pans.** Made of galvanized iron, strongly wired. Almost indestructible. Shallow for chicks. Made in two sizes: No. 1, 6x7 in. and 1 in. deep, capacity about 1 quart., 15c. No. 2, 7½x8½ in. and 1½ in. deep, capacity about 1½ quarts, 20c.

## SANITARY AND UP-TO-DATE FOUNTAINS.

**Drop-Bottom Founts.** Fig. 8. 28-gauge galvanized steel. Easiest thing in the world to open and clean. Clasp by which the bottom is fastened fits over the small hole under the hood, preventing slopping of water when the fount is handled. Solid brass hinge rod—no rust.

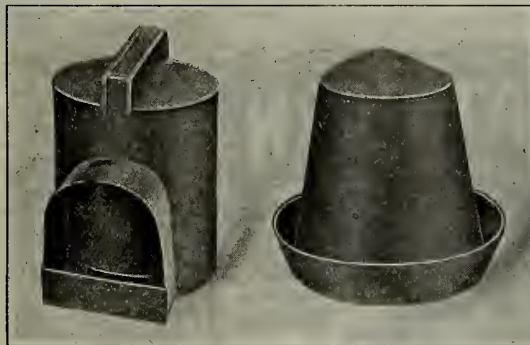
2-quart .....\$ .45  
1-gallon ..... .60  
2-gallon ..... .80

**Two-Piece Drink Founts.** Fig. 3. Black iron, galvanized after fount has been completed. This assures a smoother, better looking fountain and keeps the edge at the top from rusting. When the galvanizing is done first, turning the edge cracks it and makes it liable to rust. We can also furnish these with flat top, price same.



Fig. 8.

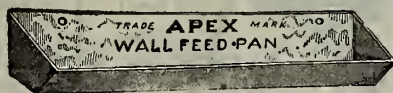
Price, 1-qt., 20c.; 2-qt., 25c.; 4-qt., 35c.; 8-qt., 50c.



No. 2—Two-Piece and Wall Fountain—Fig. 3.

**Wall Founts.** Fig. 2. All these wall founts have hoods over the troughs, which prevent dirt from settling in the water. Can be hung up on wall, and for this reason are preferred by many to the two-piece fount, which must be placed on the floor. Price, 1-gal., 50c.; 2-gal., 75c.

**"Apex" Wall Feed Pan.** It can be hung high or low out of the way. Easy to clean. Can be used for feed, grit, etc. Price, 35c. and 25c.



**"Anex" Single Chick Feeders.** Are made with hinged top, provided with small rings to hang on wall if desired. Made in four sizes of three, six, nine and twelve holes. Price, 25c., 35c., 50c. and 75c.

**"Apex" Double Chick Feeders.** Are made with the readily removable patent slip top. Chicks can feed from both sides. Made in three sizes of six, ten and fourteen holes. Price, 35c., 50c. and 75c.



**"Apex" Duck Fountain.** This fountain has been constructed along the lines of the "Apex" feeders, without, however, having the "Apex" bottom. The duck can readily drink, but cannot get the bill into the water far enough to "wallow." Two sizes, 2 qts., 50c., and 4 qts., 75c.



**Simplicity Chick Server** is an especially constructed trough for feeding baby chicks. It is made from galvanized steel 20 in. long and so constructed that the chicks cannot waste the feed. Price, 25c.

**Atsatt Chick Feeder.** Very serviceable; galvanized iron; protected top to keep chicks out. Price, 25c.



## PIGEON FOUNTAINS, BATH PANS, NESTS, ETC.

### MOE'S SANITARY DRINKING FOUNTAIN FOR PIGEONS



(Patented.)  
**Round Drinking Pan** affords accommodations for a large number of birds at the same time.



Fig. 2.

Drinking surface protected by a hood to prevent contamination. Can be hung up or placed on the floor. No. 1 Moe's Pigeon Fountain, one gallon capacity, \$1.25.

**Feed Cups for Exhibition and Training Cages.** Fig. 2. Large size, 20c. each, \$1.75 doz.; small size, 15c. each, \$1.50 doz.

**"Apex" Pigeon Bath Pan.** These are of best quality galvanized iron, riveted corners, wired with heavy wire, will not rust, and with ordinary care should last for years. Sizes: 18 in. square, 4 in. deep, capacity about 5 gal., \$1.00.



**Clay Pigeon Nest.** Price, 15c.; doz., \$1.50.  
**Earthenware Poultry and Pigeon Fountains.** Fig. 1. Especially adaptable for warm weather, as the water does not get so hot in them. Price, pint size, 20c.; qt., 25c.; 2-qt., 35c.; 4-qt., 45c.; 8-qt., 60c.

## EGG TESTERS, INCUBATOR LAMPS, BURNERS, ETC.

**Magic Egg Tester.** Guaranteed to tell fertility of eggs before putting them in incubator or under hen. No poultry man should be without it. Price, \$2.00; postpaid.



X-Ray Egg Tester.

**X-Ray Egg Tester.** Price, 25c. each.

**Vermin-Proof Roost Support.** Price, 25c. pair.

**Blue Flame Gas Burner** for incubators. Price, 85c. each.

**The X-Ray Pocket Egg Tester and Pocket Flashlight.** Shows plainer than any other tester the development of the embryo. Gives a surprisingly powerful white light. A sensible, economical article for every day use. With guaranteed long life Tungsten



Zero Brooder Stove.

Battery that lasts three times longer than any other battery. In ordinary use it will last for many months. The X-ray has a detachable Nickelplated Cup, and can be used with or without the cup as a Pocket Flashlight. The Cup acts as a Searchlight Reflector when left on.

For household, garage, auto, store, around the farm, camp, boat, etc. it is indispensable.

Price, \$1.50 postpaid; complete with battery and nickelplated cup; extra Tungsten batteries, 40c.; extra Mazda bulbs, 20c.

All electrical supply and many other stores keep these batteries and bulbs in stock.

If you want safety, convenience and economy get an X-RAY today. Don't put it off a minute, because you need an X-RAY. Everybody needs it.

**O. K. Incubator and Brooder Lamps.** Safest lamp made. With proper care will last for years. No. 1, 5-8 in. wick, complete with burner and chimney, 55c.; No. 2, 7-8 in. wick, complete with burner and chimney, 70c.; No. 3, 1½ in. wick, complete with burner and chimney, \$1.10.

**Galvanized Iron Chimneys.** For incubators and brooders. Price, 15c.

**"Zero" Brooder Stove.** For persons making their own brooder. All complete, \$1.25.

**Incubator Wicks.** State sizes wanted. Price, 2 for 5c.; doz., 25c.

**Brooder Wicks.** State sizes wanted. Price, 2 for 5c.; doz., 25c.

**Incubator Lamp Burners.** For "Mandy Lee," Cyphers, Essex, Prairie State and other makes. Large size, 40c.; small size, 30c.

**Brooder Lamp Burners.** For various makes. Price, 40c.

**"Zenith" Chimneyless Brooder Lamp Burner.** Price, 40c.

**Felt—For Incubator Diaphragms and Brooders.** Price, 30. square yard.



No. 3 O. K. Lamp, 10 in. High.

**Weather-Proof Sheeting.** Valuable for curtains on poultry house fronts. Keeps out rain and drafts, but permits light. Price, heavy grade, 12c. yard.

We carry various other brooder and incubator repairs.



## CHICKEN AND PIGEON LEG BANDS.

ALL POSTPAID.

Mark your old hens to distinguish them from pullets, so that you can catch the right one to kill at the first grab. Table of sizes of bands for different breeds. Order by number.

No. 1. Bantams and small Mediterranean females, etc.

No. 2. Ordinary Mediterranean and pit game females, etc.

No. 3. Mediterranean males, American females, pit game males.

No. 4. American males, medium Asiatic females, turkey hens, etc.



Climax

No. 5. Ordinary large Asiatics and tom turks, etc.

"Spir-O-I" Leg Bands are made of celluloid in ten different colors. Prices: Four Poultry Sizes, 12, 20c.; 25, 35c.; 50, 60c.; 100, \$1.00; 500, \$4.00; 1000, \$8.00. Pigeon and Day Old Chick Sizes, 12, 15c.; 25, 25c.; 50, 40c.; 100, 65c.; 500, \$3.00; 1000, \$5.25.

"Smith Sealed" Bands. If you want the best be sure you get "Smith Sealed" stock numbered hands. Every band is numbered different.

Prices: Doz., 30c.; 25, 50c.; 60, \$1.00; 100, \$1.50; 250, \$3.50; 500, \$6.50; 1000, \$12.50. Sizes as table above.

Sealers, for sealing S. S. Bands. Plain, 50c.; lettered jaw, 60c.; nickelplated, 65c.; lettered jaw, 75c.

"Double Clinch" Leg Bands. Made in sizes as table. A strictly reliable open or removable band. Fastens with two clinches, leaving absolutely no exposed corners, ends or loops to come loose. Prices: Doz., 15c.; 25, 25c.; 50, 40c.; 100, 65c.; 250, \$1.50; 500, \$2.75; 1000, \$5.25.



Fig. 4.



Smith Sealed.



Fig. 2.

"Champion" Leg Bands. Fig. 2. Adjustable; in two sizes. Large for American, small for Mediterranean breed. Price, doz., 15c.; 25, 25c.; 50, 40c.; 100, 65c.; 250, \$1.50; 500, \$2.75; 1000, \$5.25.

"Climax" Leg Bands. Fig. 5. The original "Spring" wire and clasp band. Prices, doz., 15c.; 25, 30c.; 50, 45c.; 100, 75c.; 250, \$1.75; 500, \$3.25; 1000, \$6.00. Made in sizes as table above.

Seamless Pigeon Bands. Made in three sizes. Prices, doz., 30c.; 25, 50c.; 100, \$1.50.

Open Chick, or Pigeon Bands. Prices, doz., 15c.; 25, 25c.; 50, 40c.; 100, 65c.

Coloroid Three Number Pigeon Bands. This band is the most visible, most effective and practical numbered leg band made, in colors that can be seen at a distance. Prices, 6 pairs, 25c.; 12 pairs, 50c.; 25 pairs, \$1.00; 50 pairs, \$1.50.

Ideal de Luxe Pigeon Bands. Two colors on each band, all colors for marking mated pairs. Prices, 6 pairs, 30c.; 12 pairs, 60c.; 25 pairs, \$1.00; 50 pairs, \$1.75.

"Coloroid" Eclipse Poultry Bands. Made in eighteen colors. Black numbers on white ground on two sides of the band; can be read at several feet distant. Prices, doz., 35c.; 25, 75c.; 50, \$1.50; 100, \$2.50.

## MOE'S SELF LOCKING LEG BAND

MOE'S SELF LOCKING BAND READY TO BE USED



What Breed.

In Ordering, State

for (Three Sizes)

FOR POULTRY

EASILY ADJUSTED WITH THE FINGERS AND IT IS THEN ON TO STAY



For Mediterranean, Americans and Asiatics.

PRICES:  
12.....\$ .15  
25..... .25  
50..... .45  
100..... .75  
1000..... 6.00



## STERLINGWORTH WATER GLASS

Put your eggs down in the spring and summer when they are cheap and keep them fresh for ten months. One gallon makes sufficient solution for 50 dozen. Do not rust eggs to water glass of inferior strength. Buy Sterlingworth Water Glass, the pure, strong kind. It will stand the maximum amount of dilution with water. Don't take chances.

Price, 1 qt., 20c.; 1 gal., 50c.; 5 gal., \$2.00; 10 gal., \$3.50.

Sterlingworth Sulphur Three-Hour Fumigating Candles produce a large quantity of vapor. The wick is easy to light and when "lit" stays "lit." Price, 15c. each; mailing weight, 1 lb.

## Nest Eggs, Rat Destroyers, Wire Nests, Etc.



## A Scientific Triumph!

### LICE KILLER and NEST EGGS

COMBINED IN ONE  
Effective Lasting Not Expensive

Superior to any other in Form, Size, Appearance and every way. They look exactly like natural Plymouth Rock eggs and are excellent for laying hens.

Knox Nest Eggs. Prices, 5c. each; doz., 50c.. Special price on quantities.

Wire Nests. Made good and strong. Price, 15c. each; 2 for 25c.; \$1.50 doz.



Opal Nest Egg. Prices, 3c. each; 2 for 5c.; doz., 25c. Special price on quantities.

Young's Rat Destroyer. Don't suffer with the damaging rats. We sell this destroyer like all our other merchandise, on the money back plan. Get your money back if it does not drive every rat off the place. Price, 25c., express collect. Cannot be sent by mail.

Rat Corn. Per can, 15c., 25c., 50c. and \$1.00. Kills the rats in your poultry yard without odor. "It mummifies them."

## MOE'S RAT DESTROYER



REMOVE COVER TO BAIT



(Patent Pending.)

Insures the safety of your fowls while poisoning the rats and mice in your poultry yard.

NONE BUT RODENTS CAN REACH POISON



Fig. 4.

A boon to every poultry raiser. Any poison can be used, but we recommend one that kills them without odor and give one package free with each destroyer. Price, \$1.00.

Lightning Poultry Bits. To stop feather pulling instantly. Price, 10c. Fig. 4.



75c. MEHLER'S SCRAPER for DROPPING BOARDS. Gets the CORNERS. SCRAPES on the PUSH or PULL. Does the Work Better in 1/2 the Time.

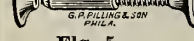


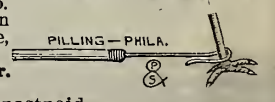
Fig. 5.

small. Price, 25c. Fig. 5. Poultry Marker. In shape of plyers. Price, 25c.

Pilling Fowl Catcher. Price, 20c.

Any of the above sent postpaid.

Mehler Scraper. Positively the best and handiest tool which has ever been offered to Poultry Keepers. Works both ways coming and going. Made of the very best hard pressed steel. Price, 75c. Philadelphia Poultry Marker. Large and



I began using your Park & Pollard's Dry Mash which makes them lay; also your Scratch Food, on October 1st, 1913. Am glad to let you know with what results I met from the use of same. My hens started laying on November 10th, 1913, and up to the present time there has only been three days that I failed to get eggs. I also used your Park & Pollard's Chick Feed and Growing Feed with equal success. I take pleasure in recommending all your feeds to my friends. At the present time I have ten hens—Rhode Island Reds, 18 months old—and I am getting three to five eggs daily. Yours truly,

ARCHIBALD S. SHAFER, 920 Gorsuch Ave., Baltimore, Md.





## INCUBATOR THERMOMETERS, CAPONIZING SETS, ETC.

"Tycos" Incubator Thermometer, No. 5770. Many poultry raisers prefer the standing type of incubator Thermometer. No. 5770 is made with metal legs, which fold under and may be adjusted to almost any desired position. Sets in among the eggs on the floor of the incubator. Made in mercury tubes only. Price, 75c. each.

"Tycos" Incubator Thermometer. No. 5782. Most popular. Suitable for any incubator. Price, 60c.

"Tycos" Certified Incubator Thermometers. No. 5782. Price, \$1.50.

"Tycos" Brooder Thermometer. Unmounted. Price, 40c. Mounted, 50c.

"Tycos" Incubator Hygrometer. No. 5796. Price, \$1.50. Extra wicks, 10c. each.

"Mandy Lee" Incubator Thermometer. Price, 75c.

"Mandy Lee" Incubator Hygrometer. Price, \$2.00. Extra wicks, 5c. each.

"International" Hoover Thermometer. Price, 50c.

Philadelphia Caponizing Set, in plain box, \$2.50.

Philadelphia Caponizing Set, in velvet-lined box, \$2.75.

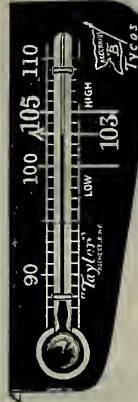
Pilling-Farmer, in velvet-lined box.....\$3.00

Pilling-Special, in velvet-lined box.....4.00

Pilling-Twinning, in velvet-lined box.....4.00

Pilling-Miles, in velvet-lined box.....7.50

Gape Worm Extractors. Price, 25c.



No. 5782 Thermometer.

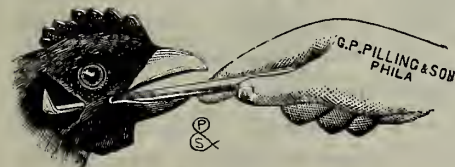


Fig. 7.



Fig. 6 All the above post-paid.

**Park & Pollard Dry Mash.** When we tell you our Dry-Mash makes them "Lay or Bust" every time, at all seasons of the year—we mean what we say. It is impossible for a healthy hen to eat our Dry-Mash and not lay. Lb., 3c.; 100 lbs., \$2.50. Prices on Feeds subject to market changes.

**Park & Pollard Scratch Feed.** This mixture is so carefully blended and proportioned that no fear of over-feeding need be entertained. Scratch Feeds are usually made the dump of refuse grains that cannot be sold in the open market, and when making comparison of prices, keep in mind that every kernel of grain in our feed is sweet, and that there are no sweeping or weed seed contained. 5 lbs., 15c.; 10 lbs., 25c.; 100 lbs., \$2.25. The great 1912 Baltimore Poultry and Pigeon Show was fed with this Food. To prove its worth it was fed again this year, 1914.

**Park & Pollard Growing Feed.** Stuff your youngsters with it and your chickens will always be ready for the table or market and show you better returns than ever before. As a moulting food for all old stock and a pusher for the developing pullets it is recognized as the best by all poultrymen who have used it. Lb., 3c.; 100 lbs., \$2.50.

**Park & Pollard Intermediate Chick Feed.** Keeping the commercial end of poultry always in mind, we manufacture the "Intermediate" Chick Feed, selling at a less price than Gritless Chick Food. This contains the same high quality grain and seeds, but no fish. It is fed after the chicks are five weeks of age, being fed in connection with our Growing Feed. Lb., 3c.; 100 lbs., \$2.35.

**Park & Pollard Gritless Chick Feed.** Contains a better variety of grains and seeds, and of a higher quality than any other feed on the market, and in addition to this superior assortment of grains and seeds, it contains animal food in the form of dried shredded codfish, supplying protein, lime and phosphorus in the right proportions. The fish we use being put through a special preparatory process that eliminates

Angular Killing Knives. Fig. 7. Price, 50c. each.

French Poultry Killing Knife. Fig. 6. Price, 50c.

All the above goods sent postpaid.

French Safe Edge Killing Knife. Price, 50c.



Overall Dry Mash Feeder and Fountain.

Prices: 1 peck, 60c. (6 Lay or Bust Bags); 6-qt. size, 50c. (5 Lay or Bust Bags).

As a moulting food for all old stock and a pusher for the developing pullets it is recognized as the best by all poultrymen who have used it. Lb., 3c.; 100 lbs., \$2.50.

Keeping the commercial end of poultry always in mind, we manufacture the "Intermediate" Chick Feed, selling at a less price than Gritless Chick Food. This contains the same high quality grain and seeds, but no fish. It is fed after the chicks are five weeks of age, being fed in connection with our Growing Feed. Lb., 3c.; 100 lbs., \$2.35.



Overall Chick Feeder.

Price: Each, 40c. (or 4 Lay or Bust Bags).

## POULTRY FEEDS, GRIT, SHELL, ETC.

all the fat, it supplies the newly hatched birds at the crucial age when most needed with animal protein, without the animal fat. Lb., 3c.; 100 lbs., \$2.75.

**Park & Pollard Red Ribbon Chick Feed.** If you feel you cannot afford Gritless Chick Feed, try our Red Ribbon brand. This will raise more chickens than any other feed except Gritless Chick Feed. It is manufactured just as carefully as our famous Gritless Chick Feed brand, but leaving out the animal food reduces the cost, so that we can sell it at a lower price. Lb., 3c.; 100 lbs., \$2.40.



**Royal Crown Beef Meat (Beef Scrap).** High grade article, guaranteed 50% protein. At a recent test at the Maryland Agricultural College it was found to contain over 60%. Price, 4c. per lb.; \$3.25 per 100 lbs.

**Crushed Oyster Shell.** Important as an egg-shell maker. Price, 5 lbs., 10c.; 10 lbs., 15c.; 25 lbs., 25c.; 50 lbs., 35c.; 100 lbs., 60c. Two sizes, fine and coarse. Special price on quantity.

**Charcoal.** Aids digestion and promotes health. Fine, Medium, Coarse. Prices, lb., 5c.; 5 lbs., 20c.; 10 lbs., 35c.; 50 lbs., \$1.00.

**Alfalfa Clover.** Dustless, short-cut, pure alfalfa, specially prepared for poultry. Prices, lb., 3c.; 100 lbs., \$2.00.

**Alfalfa Meal.** Same article as above, but ground up to a meal. Prices, lb., 3c.; 100 lbs., \$2.00.

**Storage Can.** Galvanized, deep cover, rat and damp-proof. Excellent for storing grain or dry mash. Capacity 2 bushels. Price, \$1.40; square cans holding 3 bu., \$2.25.

**Nitro-Sina.** Combination of oyster shells, crab shells and crab meat; highly nutritious; excellent egg producer. Price, 3c. lb.; 100 lbs., \$1.75.

**Cracked Bone.** Fine, Medium, Coarse. Price, lb., 4c.; 100 lbs., \$2.75.

**Pearl Grit.** For more eggs and healthy fowls use Pearl Grit. It serves a double purpose—grinds, nourishes, strengthens, and makes shell. No. 1 for chicks and pigeons; No. 2, medium poultry; No. 3, large poultry. Price, 5 lbs., 10c.; 10 lbs., 15c.; 25 lbs., 25c.; 50 lbs., 40c.; 100 lbs., 75c. Special price on quantity.

**"Hen-e-ta" Bone Grits.** No other grit or shell is necessary to be fed with it. No. 3, Coarse; No. 2, Medium; No. 1, Fine; No. 4, Super-fine. Price, 10 lbs., 50c.; 25 lbs., \$1.00; 100 lbs., \$2.25; 500 lbs., \$9.00.

**"Red Cross" Health Grit.** For pigeons and poultry. Price, 5 lbs., 15c.; 10 lbs., 25c.; 50 lbs., 90c.; 100 lbs., \$1.50.

**O. K. Litter.** Absorbs the moisture of the droppings; can be kept on the floor for several months. Bale of 175 lbs., \$2.50; lb., 3c., in small quantities.



Trade Mark

## STRAIGHT POULTRY AND PIGEON FOOD.

	Per lb.		Per lb.
Whole Corn.....	2½c.	Buckwheat .....	3c.
Cracked Corn.....	2½c.	Cracked Rice.....	5c.
Corn Chop.....	2½c.	Hemp Seed.....	5c.
Wheat .....	2½c.	Millet Seed.....	5c.
Oats .....	2½c.	Vetches .....	5c.
Barley .....	2½c.	Dutton Corn.....	5c.
Bran .....	2½c.	Canary Seed.....	10c.
Middlings .....	2½c.	Hulled Oats.....	5c.
Gluten Meal.....	4c.	German Rape.....	10c.
Cotton Seed Meal.	4c.	Sunflower Seed.....	10c.
Linseed Meal.....	4c.	Flax Seed.....	6c.
Kaffir Corn.....	3c.	Maw Seed.....	25c.
Canada Peas.....	5c.	Rolled Oats.....	5c.

Price on larger quantities furnished on application.

## SONG BIRD SUPPLIES.

Cuttle Fish Bone. Price, 2 for 5c.; lb., 40c.

**"Gloria" Song-Restorer Food.** This is an imported article which is scientifically proportioned and has been fed with great success. Price, lb., 15c.

**Park & Pollard Bird Lice Powder.** A most effective remedy for killing lice and fleas on birds, cats, dogs, monkeys, rabbits, etc. Price, 25c.

**P. & P. Superior Bird Tonic.** Remedy for loss of song, moulting out of season, colds, etc., for Cage Birds. Price, 25c. Liquid (cannot be sent by mail).





**Chick Manna.** Every poultry raiser should understand the value of this feed for starting the chicks and turkeys strong, vigorous healthy and well developed. It is specially prepared for bringing the frail little creatures through a most critical period—the first 10 days—by regulating and strengthening their fine and tender organs, and thereby being better able to withstand the disease they are subject to. Is a complete food in every respect, requiring nothing more for the first ten days than chick manna. Prices, lb. pkg., 10c.; 5-lb. pkg., 40c.; 15-lb. pkg., \$1.10; 60-lb. bulk case, \$4.20; 100-lb. bulk case, \$7.00.

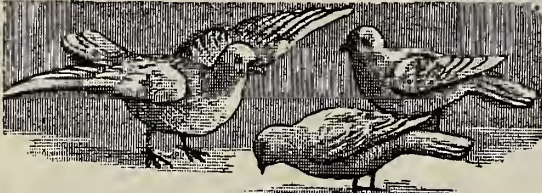
**"Gloria" Bird Gravel.** Taken from beds of fresh water rivers and specially prepared. Imported. Price, 5c. lb. Special price in quantity.



**First 10 days Food**

**F P C**

**CHICK MANNA.**



**Mixed Pigeon Food.** Composed of re-cleaned, sound and sweet grains and seeds in a great variety. The 1912 and 1914 Baltimore Poultry and Pigeon Show was fed with this food. Price, lb., 3c.; 100 lbs., \$2.75.

**Tick Beans.** A highly nutritious food for Pigeons. Price, lb., 5c.; 100 lbs., \$3.50.

**Tobacco Stems.** Price, 3c. lb. Special price on quantity.

**Reliable Poultry Remedies, Conditioners, Insect Destroyers Disinfectants, Etc.**

**CONKEY'S REMEDIES.**



**Don't Worry! Conkey Will Cure Me**

**Roup Cure.**...25c.; postpaid, 50c. and \$1.00

**Bronchitis Cure.**...postpaid, 50c.

**Cholera Cure.**...25c.; postpaid, 50c.

**Gape Remedy.**...50c.; postpaid, 60c.

**Limber Neck.**...50c.; postpaid, 55c.

**Scaly Leg.**...25c.; postpaid, 30c.

**Healing Salve.**...25c.; postpaid, 50c.

**Poultry Tonic.**...25c.; postpaid, 30c.

**Chicken Pox.**...50c.; postpaid, 60c.

**Worm Cure.**...postpaid, 50c.

**Poultry Laxative.**...25c.; postpaid, 30c.

**Head Lice Ointment.**...10c.; postpaid, 25c.

**Black Head Remedy.**...postpaid, 50c.

**White Diarrhoea Remedy.**...postpaid, 50c.

**Rheumatic Cure.**...50c.; postpaid, 55c.

**Lice Powder.**...Not postpaid, 10c., 25c., 50c. and \$1.00.

**Laying Tonic.**...Express not paid, 25c. and 50c.

**Lice Liquid.**...Express not paid. Qt., 35c.; 2 qts., 60c.; 4 qts., \$1.00.

**Noxide Disinfectant.** Express not paid. Pt., 35c.; qt., 60c.; 2 qts., \$1.00; gal., \$1.50.

**Chas. T. Coenman's Condition Tablets, for Poultry and Pigeons.** Price, 50c.; postpaid.

**Going Light Tablets.** Price, 50c.; postpaid.

**Sterlingworth White Diarrhoea Remedy.** Price, 50c

**"American" Turkey Powder.** It is sure to raise your young turkeys to healthy birds. For poultry and pigeons. Shipping weight, 2 lbs. Price, 25c.; postpaid.

**Model Salt Cat Brick.** For poultry and pigeons. Shipping weight, 2 lbs. Price, 15c.

**Whiting's Roupene.** Cures roup, diphtheritic roup, colds, etc. Liquid. Price, \$1.00, and 50c. bottles.

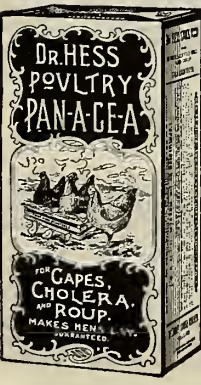
**Margaret Mahaney Black Head Remedy.** For turkeys; sure cure. Price, \$1.00; postpaid.

**Mrs. Haven's Baby Chick Remedy.** Guaranteed to cure white diarrhoea. Price, 25c.; by mail, 30c.

**Dr. Hess' Poultry Pan-a-ce-a.** Guaranteed tonic and egg producer. 1½-lb. pkg., 25c.; 6-lb. pkg., 60c.; 12-lb. pkg., \$1.25; 25-lb. pail, \$2.50.

**Dr. Hess' Roup Remedy.** Price, 4-oz. can, 25c.; liquid.

**Dr. Hess' Instant Louse Killer.** Shipping weight, 2 lbs. Price, 25c. pkg.



**Lee's Germozone.** The best tonic for poultry of all kinds. Cures roup, cholera and other poultry diseases. 12-oz. bottle, 50c.; in tablet form, postpaid, 50c.

**Lee's Egg Maker.** One of the best egg producers and tonic. 25c. pkg., shipping weight, 3 lbs.; 50c. pkg., shipping weight, 6 lbs.; pails, \$1.25 and \$2.00.

**Lee's White Diarrhoea Remedy.** Price, 12-oz. bottle, 50c.; liquid.


**Lee's Lice Killer.** Qt., 35c.; 2 qts., 60c.; 1 gal., \$1.00. Liquid.

**Lee's Insect Powder.** For poultry. Price, 25c. and 50c. pkg.; shipping weight, 2 and 4 lbs., respectively.

**French Poultry Mustard.** Will increase egg production. 1½-lb. box, 35c.; 3-lb. box, 65c.; 5-lb. box, \$1.00; 10-lb. box, \$2.00; 25-lb. pail, \$5.00.

**'Zenoleum' Disinfectant Lice Killer and Animal Dip.** 1 gallon makes 100 gal. of fluid. 8 oz., 25c.; 1 qt., 50c.; 1 gal., \$1.50 liquid.

**"Chemo."** Destroys all insects. It is stainless; can be sprayed direct on white poultry. A thorough disinfectant. The great 1913-14 Baltimore Poultry Show were disinfected with "Chemo." 1 qt., 60c.; ½ gal., \$1.00; 1 gal., \$2.00; 5 gals., \$9.00; 10 gals., \$17.50



**PRATT'S REMEDIES**



**Pratt's Poultry Regulator.** In use by the most successful poultry raisers everywhere. Pkg., 10c., 25c. and 50c.; shipping weight, 1, 2 and 5 lbs., respectively. 12-lb. pail, \$1.25; 25-lb. pail, \$2.50.

**Pratt's Roup Remedy.** Pills or powder. Price, 25c., 50c. and \$1.00; postpaid.

**Pratt's White Diarrhoea Remedy.** Price, 25c. and 50c.; postpaid.

**Pratt's Cholera Remedy.** Price, 25c. and 50c.; postpaid.

**Pratt's Gape Remedy.** Price, 25c. and 50c.; postpaid.

**Pratt's Bronchitis Remedy.** Price, 25c. and 50c.; postpaid.

**Pratt's Chicken Pox Remedy.** Price, 25c. and 50c.; postpaid.

**Pratt's Condition Tablets.** Price, 25c. and 50c.; postpaid.

**Pratt's Head Lice Ointment.** Price, 10c.; 25c. postpaid.

**Pratt's Scaly Leg Remedy.** Price, 25c. and 50c.; postpaid.

**Pratt's Poultry Disinfectant Lice Killer and Dip.** 1 qt., 35c.; 2 qts., 60c.; 1 gal., \$1.00. Liquid.

**Pratt's Lice Killer.** Powdered form. Price, 10c., 25c. and 50c.; shipping weight, 1, 2, and 4 lbs., respectively.

**PRATT'S BABY CHICK FOOD.**




This is one of the greatest Money Savers and greatest Chick Savers ever placed on the market. Every man, woman or child who raises little chicks, turkeys, ducks and geese should try at least one package of Pratt's Baby Chick Food. It is a scientific food ration to be fed for the first two weeks. If you want real success with your hatches, if you want to save all the baby chicks, if you want them to grow fast—get Pratt's Baby Chick Food on our recommendation for your first trial; after that you will never be without it. Put up in 10c., 25c. and 50c. pkgs, shipping weight 2, 4 and 7 lbs. respectively; also 50-lb. and 100-lb. bags, \$3.00 and \$5.75.

**Calsino Poultry Restorative.** Price, 25c. pkg.; shipping weight, 2 lbs. 50 lbs., \$5.00.

**Calsino Gape Cure.** Sure cure. Price, 25c.; by mail, 30c.

**Calsino Lice Powder.** Price, 10c. and 25c. pkg; shipping weight, 1 and 2 lbs., respectively.

**DOG FOODS AND REMEDIES, ETC.**



**Corner's Ready-to-Feed Cooked Dog Food.** The best dog food on the market, in the shape of meal; can be fed dry or wet. We have hundreds of customers who are feeding this food with entire satisfaction. Send for special booklet. Price of food, 5c. lb.; 100 lbs., \$4.00.


**Spratt's Meat Fibrine Vegetable Dog Cakes.** A staple food for all breeds; to well known to be described. Price, 1 lb., 10c.; 3 lbs., 25c.; 10 lbs., 75c.; 100 lbs., \$6.50.

**Spratt's Puppy Biscuits.** The standard puppy food. 1 lb., 10c.; 3 lbs., 25c.; 10 lbs., 75c.; 100 lbs., \$7.00.

**Spratt's Dog Remedies.** A remedy for each disease. Send for special booklet.

**Spratt's White Dog Soap.** Death to fleas. Price, 25c.; postpaid.

**Vermilax.** Guaranteed worm expeller and tonic. Price, bottle, 50c. and \$1.00. Liquid.





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## WEIGHT OF AGRICULTURAL SEEDS, PER BUSHEL, AND QUANTITY USUALLY SOWN PER ACRE.

Weight per Bushel.	Quantity per Acre.
20 lbs. Roland Park Lawn Grass.....	2 1/2 bu.
14 lbs. Kentucky Blue.....	50 lbs.
32 lbs. Red Top, fancy.....	36 lbs.
14 lbs. Orchard Grass.....	42 lbs.
24 lbs. English or Perennial Rye.....	40 lbs.
22 lbs. Meadow Fescue.....	30 lbs.
12 lbs. Sheep Fescue.....	30 lbs.
7 lbs. Meadow Foxtail.....	25 lbs.
21 lbs. Crested Dog's Tail.....	30 lbs.
19 lbs. Wood Meadow.....	30 lbs.
16 lbs. Rhode Island Bent.....	50 lbs.
10 lbs. Tall Meadow Oat.....	50 lbs.
45 lbs. Timothy, alone.....	1 1/2 bu.
60 lbs. Timothy with other grasses.....	1 1/4 bu.
60 lbs. Alsike, alone.....	15 lbs.
60 lbs. Alfalfa, or Lucerne.....	20 lbs.
60 lbs. White Clover, alone.....	10 lbs.
60 lbs. White Clover, with other grasses.....	3 lbs.
60 lbs. Crimson Clover.....	15 to 20 lbs.
50 lbs. German Millet.....	50 lbs.
50 lbs. Hungarian Millet.....	50 lbs.
60 lbs. Red Clover.....	15 lbs.
60 lbs. Red Clover.....	4 lbs.
Timothy.....	7 lbs.
Red Top.....	4 lbs.
together for one acre.	
60 lbs. Wheat, broadcast.....	1 1/2 to 2 bu.
Wheat, in drills.....	1 1/2 to 2 bu.
56 lbs. Rye, broadcast.....	1 1/2 to 2 bu.
32 lbs. Oats, broadcast.....	2 to 3 bu.
48 lbs. Sorghum, drills.....	1 1/2 bu.
Sorghum, broadcast.....	1 to 2 bu.
56 lbs. Field Corn, in hills.....	8 qts.
56 lbs. Corn, for soiling.....	1 to 2 bu.
60 lbs. Vetches, broadcast.....	1 bu.
48 lbs. Barley, broadcast.....	1 bu.
48 lbs. Broom Corn, in hills.....	6 to 8 qts.
48 lbs. Buckwheat, broadcast.....	1 bu.

## PRICES ON UTILITY EGGS FOR SETTING OR INCUBATORS.

Eggs of Single Comb White Leghorn, Barred Rock, Rhode Island Red, both Single and Rose Comb, and White Wyandottes, we can furnish as low as \$1.50 per setting of 15; \$6.00 per 100, f. o. b. our store.

## PRICES ON SPECIAL MATING EGGS AND STOCK.

Black Minorcas, Andalusians, Anconas, Houdans, Barred, White, Buff and other Plymouth Rocks, Single and Rose Comb Rhode Island Red, Black Langshan, Wyandottes, Buff, White and Black Single Cob Orpington, White, Brown and Buff Single Comb Leghorns.

Thoroughbred Stock,	15 Eggs.....	\$2.00
Thoroughbred Stock,	100 Eggs.....	8.00
Exhibition Stock,	15 Eggs.....	3.00
Exhibition Extra Quality,	15 Eggs.....	5.00

Stock—Thoroughbreds, each.....from \$2.00 to 3.00  
Thoroughbreds, choice, each.....4.00  
Exhibition Birds.....\$5.00 to 25.00  
We can furnish most all other varieties of poultry at the above figures, but must always have a week or ten days to furnish stock wanted.

White Pekin and Indian Runner Duck Eggs, \$1.50 and up per setting of 11; \$10.00 per 100.

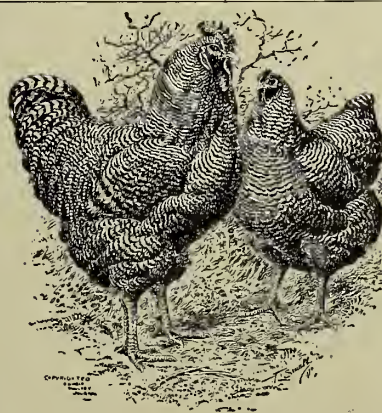
Prices on Turkey, Geese, Guinea and Other Eggs furnished on application.

From our Mammoth Hatchery we can supply Baby Chicks of the leading varieties at very low prices and at short notice. Let us quote you.

## Practical Poultry Books.

(All postpaid.) The Orpington, 75c.; Rhode Island Reds, 75c.; Successful Poultry Keeping, \$1.00; Artificial Incubating and Brooding, 50c.; The Plymouth Rocks, Wyandottes, Leghorns, each, \$1.00; Asiatics, 50c.; Eggs and Egg Farms, 50c.; Poultry House and Fixtures, Chick Book, 50c.; Ducks and Geese, 75c.; Turkeys, Their Care and Management, 75c.; Bantam Fowl, 50c.; Reliable Poultry Remedies, 25c.; Egg Record and Account Book, 25c.; Million Egg Farm Book, \$1.00; Eggs the Year Around, 15c.

The Standard Book of Perfection. Everybody who raises poultry should have one of these books. Price, \$2.00, not postpaid.



Poultry Guide Post. The beginner in poultry keeping needs a plainly written hand book telling what to do, how to do, and when to do it. The Poultry Guide Post is for beginners. Your money back if you don't find it better than we recommend. Price, \$1.00 or 10 Lay or Bust bags.

The New Parcel Post rates, effective January 1st, 1914, are as follows: Parcels, 4 ounces or less, are available at the rate of one cent for each ounce or fraction thereof, regardless of distance.

Liquids and Poisons cannot be sent by Parcel Post.

Size of package that can be sent by Parcel Post cannot be over 72 inches in length and girth combined.

Miles Miles Miles					Miles Miles Miles				
Local 50-150 300 600					Local 50-150 300 600				
Zones 1 & 2 3d 4th					Zones 1 & 2 3d 4th				
1 lb.....	05	05	06	07	11 lb.....	10	15	26	47
2 lb.....	06	06	08	11	12 lb.....	11	16	28	51
3 lb.....	06	07	10	15	13 lb.....	11	17	30	55
4 lb.....	07	08	12	19	14 lb.....	12	18	32	59
5 lb.....	07	09	14	23	15 lb.....	12	19	34	63
6 lb.....	08	10	16	27	16 lb.....	13	20	36	67
7 lb.....	08	11	18	31	17 lb.....	13	21	38	71
8 lb.....	09	12	20	35	18 lb.....	14	22	40	75
9 lb.....	09	13	22	39	19 lb.....	14	23	42	79
10 lb.....	10	14	24	43	20 lb.....	15	24	44	83
Local 1st 2d					Local 1st 2d				
50-150					50-150				
21 lb.....	16	25	36	47	31 lb.....	31	40		
22 lb.....	17	26	37	48	32 lb.....	32	41		
23 lb.....	18	27	38	49	33 lb.....	33	42		
24 lb.....	19	28	39	50	34 lb.....	34	43		
25 lb.....	20	29	40	51	35 lb.....	35	44		
26 lb.....	21	30	41	52	36 lb.....	36	45		
27 lb.....	22	31	42	53	37 lb.....	37	46		
28 lb.....	23	32	43	54	38 lb.....	38	47		
29 lb.....	24	33	44	55	39 lb.....	39	48		
30 lb.....	25	34	45	56	40 lb.....	40	49		
31 lb.....	26	35	46	57	41 lb.....	41	50		
32 lb.....	27	36	47	58	42 lb.....	42	51		
33 lb.....	28	37	48	59	43 lb.....	43	52		
34 lb.....	29	38	49	60	44 lb.....	44	53		
35 lb.....	30	39	50	61	45 lb.....	45	54		



# *The* **MEYER-STISSER COMPANY**



## **TWO OF OUR Late Novelties**

### **TRITOMA OR RED HOT POKER (PFITZER)**

Hardy perennials. Price, 25c each; \$2.50 doz.  
Ready in May.

### **The Everblooming Butterfly Bush**

Semi-herbaceous Shrub. Special merits:-

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BALTIMORE, MD.**